

हमारे Mock Test न केवल Affordable हैं बल्कि Exam के लिए 100% Relevant भी हैं, यहां सीधे Students से इसका proof दिया गया है 🔥🔥🔥

vani1087 • 13 min ago
Maam 10 floor wala puzzle same 2023 ,11 number mock ka Tha maam Mai guidely mock kabhi seriously nhi li sochi itna thori aata rrb po hai sbi po nhi .exam me question dekh k solutions nhi guidely ka yaad aaya Mann Kar raha Tha mafi mange pehle

@salonipandey1408 • 2 hr ago
Alrdy next 2 yrs tk ka subscription h Mera guidely ka..last yr ibps po sbi po dene k bad hi mujhe pta chl gya ki sbi ibps po k liye yeh best h..bt rrb po k liye v yeh best h iska andaza isbar exam Dene k bad hua..thank you guidely ❤️ thoda criticise toh maine v kiya tha ki rrbs k hisab se level high h..sorry for that 🙏

rahulgaikwad1835 • 13 hr ago
Life hai hota rahta hai ye dinbhi nikal jayegaa ,aj jaise ro raheho waisehi ap ekdin bahut kushh hoge...andhere ke badme savera hota yee essa nature ka rule...don't worry apne apka best diya hai...ekbaar aggese ap guidely ke mock do...ap paper denekebad hasoge..mtlb achha jayega... 🎉

@sujaykundu1387 • 16 min ago
Guidely ke mocks mai reasoning normal rehta tha and quant mai DI rehta tha kafi calculative...to mujhe lagta tha guidely exam level se bohut upar mock set karta hai...but iss bar ke exam mai guidely ke mock ka copy kar dia lagta hai

@shivamthakur-ze8sm • 14 hr ago
mam paper was tough my shift was 6 august 3rd shift my attempt 60 with reasoning 34 and quant 26 ..even there was no quadratic in my shift but quantity comparison was there but as i am student of your and i have already attempted all the mock of guidely i got these marks thanku mam now just i am depend on u for mains too as i was in pre

@rajat2034 • 35 min ago
Acha hua last 7 days m guidely ka 97rs m mock purxhase krke lga liye toh toh xam pressure jhel liya 😂😂😂 thanks guidely

Muskan Verma
15:59
August 5
Hello mam 14:34
Mam apki blessings se paper acha hua mera 14:35
Bht bdiyq 14:47 ✓✓
Yes mam , 14:49
Mam 2 Di ayi thi , 1 caslet 14:50
00:02 14:50 ✓✓
Third 14:50
Achha quant me kitne kiye 14:50 ✓✓
Mene mam overall 69 attempt kiye .. (38 reasoning , 31 14:50
Quant 14:50
Mam guidely ke mocks sb kuch mtlb level jaisa kehte hai ki exam mein km rehta hai Aisa nhi tha . 14:51
Guidely ke mocks ke jaisa level tha 14:51
2 Di aye the(5ques) , 1 caslet thi(5ques) , 1 quadratic tha , 14 airthmetic thi , 5 missing series , 5 approximation 14:53

❤️ @spirante 🙌🏻💕
😂 overall dekha jye to guys mock guidely n set kra h asa feel aya exam level guidely jaisa tha 6:39 PM
Aditya Joshi
❤️ @spirante 🙌🏻💕
😂 overall dekha jye to guys mock guidely n... RRB ne Guidely k systummmm ko follow Kiya and mock series walo ka systummmm hang kr diya 6:40 PM


हमारे Mock Test न केवल Affordable हैं बल्कि Exam के लिए 100% Relevant भी हैं, यहां सीधे Students से इसका proof दिया गया है 🔥 🔥 🔥

A anilkumarsharma2771 · 9 min ago
I was feeling guilty in exam for not giving mocks from guidely I have given atleast 100+ mock for rrb from almost every platform like [redacted] and [redacted] but the level of quant was same as the guidely mock even the most prominent platforms like [redacted] so called [redacted] failed to stand up to the Mark so I will definitely recommend you all to give as many mocks from guidely as you can if you want to prepare for the worst guidley mocks are best


 divakarsharma8672 · 9 min ago
Thank you for mentioning guidely, bundle pdf course is one stop solution. Jo students bundle pdf course ke bare me nhi jante hai please jaiye or ise explore kare apko sahi content mil jayega. Phle mene bhi yahi socha tha upar upar se dekhne ke bad but har ek section visit krne ke bad realize hu ki isse behatar content market me nhi ho skta. Go for it.

X JohnSmith0009 · 16 min ago
Guidely team heartly thanks apko kyu ki apne hame sabse best aur tough mock provide kraye.... ajkal jitne bhi Mock test company hai vo fail hogye questions level ke mamle me....kuch log to apko troll bhi kr rhe the comments section me ki itna hard exam nh ata but aj dudh ka dudh aur pani ka Pani hogya ki kon best hai.... thanks for your support guidely team 🔥


P @pankaj6221 · 11 hr ago
Mene bhi purchase kr rakha tha but mene bhi believe nhi kiya or 4-5 mock hi lagaye the but exam dekha to bilkul exact tha mtlb reasoning easy quant tough or aisa hi same guidely mock m hota h..... But abhi rrb clerk k liye guidely k saare mock lagaunga.....


 **Bhaskarjyoti Barman** 👑
1 hour ago
aj mujhe exam deke pata chala guidely kyu quant mei Aisa sawal rakhta tha reasoning to easy tha ...Lekin quant same guidely jaisa tha aur mei jab mock deta tha tab guidely Ko Mann mei gali deta tha ki itna tough thodi na ata hai maths mei.....aj pata chala exam deke ...agar mock ke time hi sab maths Ko Baar Baar revision karta to sayad aj rrb po exam acha ho jata Lekin sab khatam ho gya aj.....Lekin Bhagwan sabko 2 Baar chance deeta hai so mei rrb clerk mei sab guidely se hi padhke jaunga..... 🔥 🔥 🔥 🔥 🔥
guidely No.1...sorry guidely aapko trust nhi Kiya pehle quant section mei 😭😭😭😭😭


 **Mahesh Rao** 6 Aug
to me ^
From **Mahesh Rao** maheshhdw8413@gmail.com
To support@guidely.in
Date 6 Aug 2023 at 9:53 PM
Standard encryption (TLS)
[Learn more](#)
Dear team
You are doing a great job.
RRB PO
Mock dete wqt mujhe lg rha tha ki itna tough paper nhi aayega.
But Aaj pta chala ki Guidely k Mock Test bilkul Exam level k hote h .
Thank you 🙏


 **Aditya Joshi**
RRB ne Guidely k systummmm ko follow Kiy...
sahi baat h asa lga ppr ka interface guidely ka de rhe h quant same ditto res bhi same lga meko
6:41 PM


हमारे Mock Test न केवल Affordable हैं बल्कि Exam के लिए 100% Relevant भी हैं, यहां सीधे Students से इसका proof दिया गया है 🔥 🔥 🔥


 rashigupta8736 • 15 min ago
50 attempt..I am not sure about my chance for mains but i really want to appreciate guidely mock tests level.. look like ibps walo ne aapke mocks copy kie ho..still mocks se thoda difficult hi tha but yes center k system or normal computer or laptop k system m bahut difference hota h .. mouse ka button 1 baar m click hi nhi krta.. will try my best for rrb clerk.. thank you guidely ❤️


 indumathiks5475 • 1 hr ago
Tq so much mam... 😊 guidly is the best for all mocs 😊

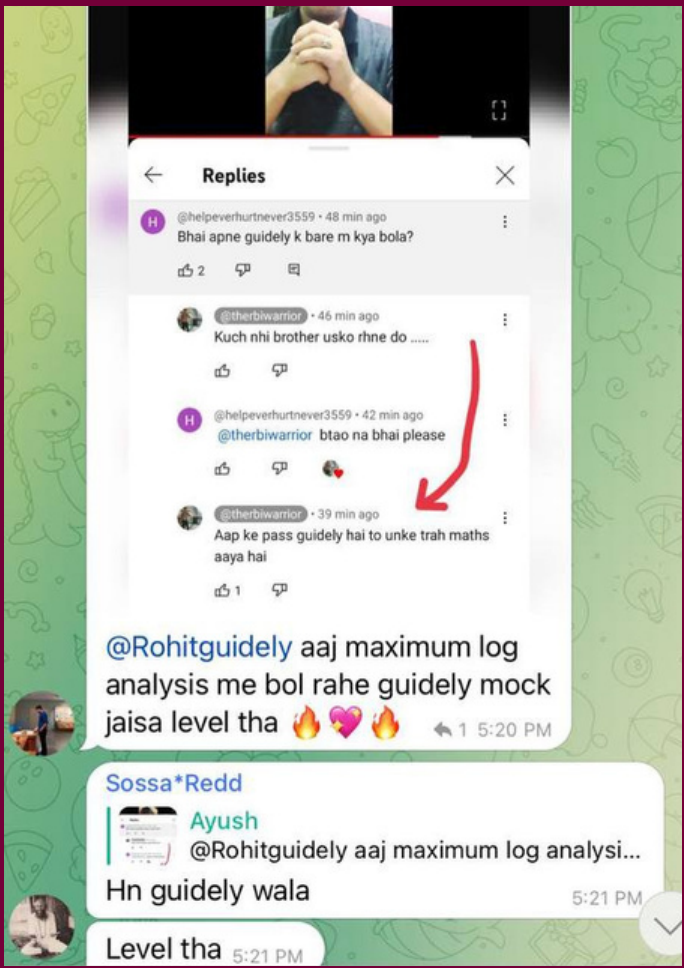
 Buddha088 • 4 hr ago
RRB PO PRE exam ke baad ye toh confirm ho gaya ki examiner v guidely ka fan hai 😍😂❤️👍

 @Abhi-eo8db • 1 hr ago
Ma'am sablog bol rhe the guidely ka mock kharab h alexan level nhi h bohot high h bekar h 😂😂😂😂
Quants exact level aaya mock jaisa ❤️❤️





 @swatiagarwal2475 • 1 hr ago
Thank you so much mam. Aaj pta chala guidely ka mock dene se kitna fayda hua h ❤️❤️❤️

 @bhanu9941 • 19 hr ago
Maine guildely k sabi mock lgaye usme 55 to 60 score rhta tha exam me b 55 krke aya hu guidely ne bhut help ki hai agr other mock deta to sayad score 40 se upar na jata thanku guidely

 @BeelineForBanking • 58 min ago (edited)
Aj 3rd shift m
Blood relation k question guidely mock test se aya tha
Read krte hi lga ki y to kia hua h..means language..and qki mene sirf or sirf guidely k hi mock lgaye the so it's clear ki question unhi mocks se aya tha
😊



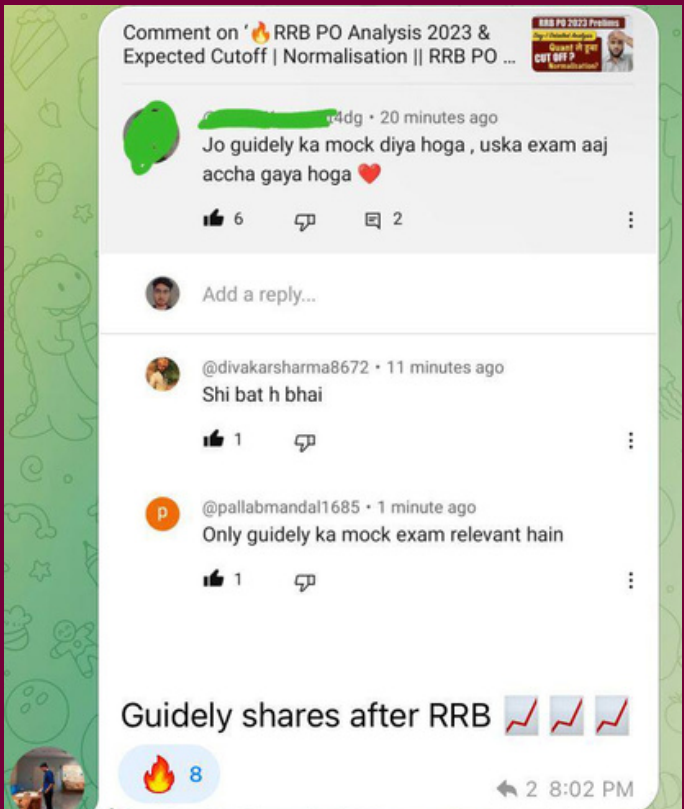
Replies

-  @helpeverhurtnever3559 • 48 min ago
Bhai apne guidely k bare m kya bola?
👍 2 🗨️
-  @therbiwarrior • 46 min ago
Kuch nhi brother usko rhne do
-  @helpeverhurtnever3559 • 42 min ago
@therbiwarrior btao na bhai please
👍 🗨️
-  @therbiwarrior • 39 min ago
Aap ke pass guidely hai to unke trah maths aaya hai
👍 1 🗨️




@Rohitguidely aaj maximum log analysis me bol rahe guidely mock jaisa level tha 🔥💖🔥 1 5:20 PM

Sossa*Redd
Ayush
@Rohitguidely aaj maximum log analysi...
Hn guidely wala 5:21 PM

Level tha 5:21 PM






Comment on 'RRB PO Analysis 2023 & Expected Cutoff | Normalisation || RRB PO ...'


-  [Redacted] • 20 minutes ago
Jo guidely ka mock diya hoga , uska exam aaj accha gaya hoga ❤️
👍 6 🗨️ 2
- Add a reply...**
-  @divakarsharma8672 • 11 minutes ago
Shi bat h bhai
👍 1 🗨️
-  @pallabmandal1685 • 1 minute ago
Only guidely ka mock exam relevant hain
👍 1 🗨️


Guidely shares after RRB 📈📈📈
🔥 8 2 8:02 PM


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 @ayushraj-gf1zv • 12 hr ago
Mai quant ko dekhkar kabhi kabhi frustrated ho jata tha ki guidely wale etna quant hard kyu puchte h but examiner bhi guidely ki tarh khel gya 😂


 @JohnSmith0009 • 11 hr ago
Pehle istemal karo fir vishwas karo....😂....Mera ab bus guidely ke mocks par hi bharosa hai.... baki  in sab me quant ka level 2020 ka dalke rakha hai but guidely hi ek asa mock hai jo har sal level increase krte aya hai....keep it up team...we always trust on guidely Mocks 😊


 @shalinipandey488 • 19 hr ago
Right exact guidly ke jese exam me aaya tha guidly is best 👍 👍


 @sourabhdua700 • 22 hr ago (edited)
Bilkul guidely jaisa tha even jo puzzle ke statement based questions guidely set karta hain wo same type tha exactly guidely is now on a top notch level

 salonipandey1408 • 55 min ago
guidely mock test exact exam level h ❤️ hmlog hi bewkoof the ma'am jo bolte the ki mock high level h..😂

 @shuvajitdas4500 • 1 hr ago
Attempted only 53 with 100% accuracy in today's 3rd shift. Guidely's mock is the best and exam relevant. Paid pdf course is on the next level. Hope so I can perform well in RRB clerk exam

 @vaibhav819 • 1 hr ago (edited)
Guidely ka mock exactly matches rrb level...🎉🎉
Lengthy level of questions ❤️ ❤️ Thanks to mam

 @bankingTyaari • 10 hr ago
thank u guidely mock and minakshi mam.....nhi to rrb po me quant 25 nhi ho pate thoda lengthy qstn karne ki practise hone ki wjah se paper thoda sahi gaya

 @akashgoswami7840 • 11 hr ago
No doubt guidely test series is very helpful

Sumit Srivastava

Minakshi Mam Guidely Faculty

9 PM koi na rrb clerk h abhi focus kriye abi o...

Ma'am guidely k mock exact exam level hai mock attempt krte time lgta tha ki high level hai....lekin hm glt the ab guidely k sbhi mock ache se krenge...

Fisrt shift me to ek qstn same aapke mock me bhi tha...same data...



10:59 PM

Aditya Joshi

Meenakshi mam aapse maafi maangna chahunga

Maine Guidely k mocks ko kaafi lightly le liya thaa exam relevant nhi h bol k

Aaj pta chlaa it was closest

Abse Guidely k saare mocks lgaunga



1 10:51 PM

@salonipandey1408 • 36 min ago

I think ppr guidely ne set kiya h rrb po ka 😂

👍 26 🗨️ 📧

16 replies

Guidely be like - kyu hila dala na 🔥

4 9:35 PM

Rakesh Bora

Rohit Sir Guidely Yt

paper moderate aa rha hai


Reasoning easy.... Quant moderate....


Same to same Guidely's mocks





4:32 PM

हमारे Mock Test न केवल Affordable हैं बल्कि Exam के लिए 100% Relevant भी हैं, यहां सीधे Students से इसका proof दिया गया है 🔥 🔥 🔥


 @sumantaacharjee3267 • 13 hr ago (edited)
I attempted 58 (gen) 5 aug 3rd shift westbengal 100 accuracy just because GUIDELY mock please keep maintain this level. Thank u ❤️❤️

 @sumantaacharjee3267 • 14 hr ago
systumm systumm


 @ranjancaudhary3847 • 14 hr ago
Bilkul guidely hi only abhi ke exam ke jaisa mock provide karta hai

 @rishabsarkar6095 • 19 hr ago
Literally..guidely mocks are good and helpful for preparation


👍 7 🗨️ 📧 🗑️

 @shivangigupta2615 • 10 hr ago
Before rrb po exam , it seems like guidely mock test was the toughest--- bt actually it was preparing us for worst

👍 2 🗨️ 📧 🗑️

 @JohnSmith0009 • 15 hr ago
Guidely is leading from the front 🔥


👍 4 🗨️ 📧 🗑️


 @asifmashal4655 • 15 hr ago
Truth ❤️❤️❤️❤️

👍 🗨️ 📧 🗑️

 @letslearnxyz4790 • 13 hr ago
Mam guidely mock ki waje se hi meri accuracy badhya Hui h ,so thanks mam for mock

👍 🗨️ 📧 🗑️


 @loveyoudhoni9963 • 13 hr ago
Sachi sachi batata hu mam guidely ke mocks humare liye sanjivni buti the... Thank you guidely 🙏

 PraVeeN [SBI PO] 🙌
Saheli Saha
Guidely ka bol sakte
guidely kroge to kisi exam m nh rukoge

1:55 PM

 no nam
SUSHMA SHARMA
Jo aaj exam ka level tha kisi mock se match...
Guidely quant...


1:56 PM

 Sruthi Chandra 10:23 AM
to me ^

From Sruthi Chandra mailtosruthichandra@gmail.com
To support@guidely.in support@guidely.in
Date 9 Aug 2023 at 10:23 AM


Standard encryption (TLS)
[Learn more](#)

Thank you so much guidely team,i have trust on you ,you will surely provide good content for us,I attempted rrb po prelims on 6th aug,Because of guidely i performed well thank you so much once again


 Aditya Joshi
dreamer
Mtlb?
Guidely k quant ko seriously lena padega mocks me

Exam wale bhi isae hi touch krna chah rhe h

2:07 PM


 Gaurav kumar jena
Aj guidely ke mock ne syyystteemm hang kr diya ... lbps ko jhuka dia and always guidely above the ssyssteem

11:15 PM


 Sarthak Sadh
Guidely mock test are best for tackling any situation in exams esepcially quantitative aptitude section

1 1:14 PM


हमारे Mock Test न केवल Affordable हैं बल्कि Exam के लिए 100% Relevant भी हैं, यहां सीधे Students से इसका proof दिया गया है 🔥 🔥 🔥


 @befocus7005 • 11 hr ago
Jabardast guidely ...pura 100% exam level.....chahe koi bhi question ho exam la length ya kuch aar sab same the thanx guidely and team...




 @laxmanpana9263 • 11 hr ago
Guidly ka contant aur jo pdf bundle h ultimate lvl ke h hr kisi ko purchase krna chahiye jo afford kr skta h




 @bibhutinaiik8455 • 15 hr ago
Mock tests are exact exam level. Thanks for providing quality content with affordable price.


 @Tathwamroy • 23 hr ago
Guidely Mocks>>> Attempted 55 3rd shift not sure about selection but mock level was 100




 @sumantaacharjee3267 • 22 hr ago
Sir genuinely speaking guidely mock helps me a lot. I attempted 58(Gen) in 5 aug 3rd shift with 100% accuracy.

 @self-preparation.govt_job • 14 hr ago
Ma'am guidly mock is super mock ekdm exam level.....




 @Anade... • 14 hr ago
Yes ma'am, Guidely mock helpful tha







 @Bssaini5197 • 14 hr ago (edited)
Elvis fan mam , ❤️ ❤️

Such main system hang kr diya h guidely ne


 Sonu Sonu
Mra jitna mock ma attempt hota ha uttn hi waha hua aisa lag raha tha guidley ka hi mock h


 Vignesh Raj
 Sonu Sonu
Mra jitna mock ma attempt hota ha uttn hi w...
Ha same feeling guidely ka difficulty and same pattern of questions


 PARTH
 Rohit Singh
jab guidely me quant difficult thi to sab bole...
Thank to guidly di usko according DI toh acchi kr paya same question pattern tha
But arithmetic me toh time hi nahi mila


 PARTH
 Rohit Singh
Ek student to kehne lga tha shame on u guide...
Paper toh guidly k bhi beyond tha sir


 Me guidly deta hoon i know


 MrRISHABH , Kumar
Meri shift me to math pura guidely level hi tha

 @Mayank-jp4rc • 14 hr ago (edited)
After RRB PO pre, Many students started shifting towards GUIDELY mock test. I'm also the one.

 @monikabisht1448 • 14 hr ago
Guidely k mock jsa hi same tha level exam ka

 @anjalgupta5686 • 23 hr ago
Sach m guidely k mock se hi mere 54 attempt ho paaya nahi to ye bhi nahi hota sirr

 @pawan_yadav14 • 22 hr ago
Guidely mocks : Jhuk ke rehna padega mere aage.

 d @dhruvanshirathod8967 • 22 hr ago
guidly mocks helped me a lot quant level was as same as guidly

90%

MATCHES

Real Exam Pattern

Guidely's Mock Test Pattern 90% Matches
with the Pattern of Real Exam

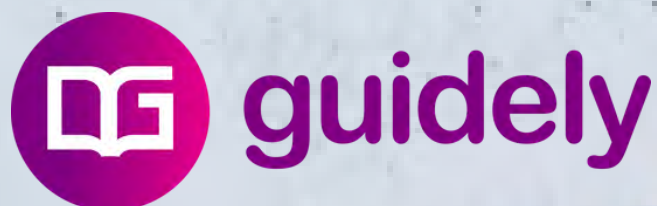


PRIME BUNDLE PDF COURSE 2023

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PRIME

BUNDLE PDF COURSE

2023



guidely

AN OFFICIAL SAMPLE OF PRIME BUNDLE PDF COURSE

Reasoning Ability

Prelims & Mains



Contents

S.No.	Details	Page No.
1	Why Guidely?	3
2	Exam Analysis (Question Weightage)	4
3	Question analysis with Our Mock and PDF course	6
4	Beginners quiz	14
5	Topic wise Bundle Course	32
6	Sectional Wise Bundle Course	52
7	Exam Wise Bundle PDF Course	66
8	Memory Based Bundle PDF Course	122
9	Prelims Scoring part	165
10	Mains Booster	177

Why Banking aspirants must choose Guidely's Bundle PDF Course and Mock test?

Guidely helps many banking aspirants to achieve their goal. Many new initiatives were launched by us to help the aspirants to achieve their dream jobs. Our mission is to give quality questions at a reasonable price. Since the questions of the bundle courses and Mock tests are developed by expert faculties who have more than 8+ experience in banking exams, the level of our questions are of up to the real exam.



MR. VAIBHAV RATURI, UK
IBPS PO 2022

I started my banking preparation in April, 2022. First i thought banking preparation was very difficult for me. (Puzzles, Fast calculation and RC was nightmare for me). But i maintained regularity and start working on my weaknesses, And solved guidely pdf bundle daily for practice. Guidely helped me lot in my preparation (Daily Current affairs pdf, Ultimate PDF bundle, and mock test series). and now I am selected as Probationary Officer in Bank Of India (SCORED 52.87).



MR. PANKAJ, HARYANA
IBPS PO 2022

I used to have less study hours, so I used pdf bundle so that I can target specific exam level question with actual time constraint and analysing where I am lacking and clearing topics which bringing my score down or consuming more time while solving, regular practice and daily target pdf helped a lot in increasing my speed and accuracy.



MR. ADITYA VERMA, UP
IBPS CLERK/ PO 2022

The bundle pdf course is very helpful for every aspirant targeting the mains exam of ibps and sbi, the daily targets of bundle pdf in mock forms gives the idea to candidate where he is lacking.



MS. KHUSHBOO VERMA, UP
IBPS PO 2022

I am preparing from last 4 years and this time i cleared IBPS PO and special thanks to guidely 's bundle pdf, mocks and ga quiz . Thankyou soo much

Exam Analysis (Question Weightage)

All Mains Exams-Reasoning Ability-2022

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Seating Arrangement	5	14	7	-	-	5
Puzzles	10	15	17	24	14	10
Syllogism	3	-	-	1	1	2
Inequality	3	3	3	-	-	2
Coding Decoding	-	-	3	-	-	4
Direction Sense	3	3	3	-	4	3
Blood Relation	3	1	2	2	4	-
Order & Ranking	-	3	-	-	-	-
Blood Relation + Order & Ranking	-	-	-	-	-	4
Miscellaneous	1	1	-	1	-	3
Data sufficiency	-	-	3	3	5	4
Input-output	5	-	-	4+2	4	5
Number series	-	-	-	-	-	-
Alphabet series	-	-	-	-	-	-
Alphanumeric series	-	-	-	-	-	-
Critical Reasoning	7	-	7	10	8	8
Total	40	40	45	50	40	50
New pattern questions	Nil	Nil	14	17	9	9

Exam Analysis (Question Weightage)

All Mains Exams-Reasoning Ability-2021

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Seating Arrangement	5	10	18	10	20	5
Puzzles	15	15	10	18	5	15
Syllogism	3	2	3	-	-	3
Inequality	-	-	2	3	-	3
Coding Decoding	-	-	-	-	3	4
Direction Sense	3	4	3	3	3	3
Blood Relation	3	2	-	3	-	-
Order & Ranking	-	-	1	-	-	3
Miscellaneous	3	2	-	-	-	-
Data sufficiency	3	-	2	3	3	2
Input-output	-	5	4	4	5	4
Number series	-	-	-	-	-	-
Alphabet series	-	-	-	-	-	-
Alphanumeric series	-	-	-	-	-	-
Critical Reasoning	4	-	2	6	6	8
Total	40	40	45	50	45	50
New pattern questions	Nil	Nil	11	4	8	5

Question analysis with Our Mock Test & Bundle PDF course

The level of questions and patterns that are asked in the real exam matches with our mock tests and bundle course. We have given detailed question analysis with our mock tests and bundle course below. So we wish our fellow aspirants to practice many mock tests and Bundle PDF course questions on our site and acquire great skills to face the competition.

IBPS RRB PO Mains Held on 1st October 2022

Questions Type	Status	Covered in
Day puzzle-2 variables	Covered	IBPS RRB Officer Scale I Mains 2022 Mock Test 3 (12-16), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-5 (16-20).
Direction sense	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-6 (16-20), SBI Clerk & RRB PO Mains bundle course 2022 Day-1 (16-20), IBPS RRB Officer Scale I Mains 2022 Mock Test 2 (6-8).
Inequality	Covered	Covered in most number of Mock Test and Bundle PDF.
Syllogism	Covered	Most number of Mock and Bundle PDF.
Designation puzzle - 2 variables	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-3 (6-10), IBPS RRB Officer Scale I Mains 2022 Mock Test 8 (33-37).
Blood relation	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-31 (6-10), SBI Clerk & RRB PO Mains bundle course 2022 Day-6 (16-20), IBPS RRB Officer Scale I Mains 2022 Mock Test 4 (11-13).
Parallel seating arrangement – 2 variables	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-14 (1-5), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-47 (16-20), IBPS RRB Officer Scale I Mains 2022 Mock Test 3 (17-21).
Input Output	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-16 (11-15), IBPS RRB Officer Scale I Mains 2022 Mock Test 5 (13-16).

Question analysis with Our Mock Test & Bundle PDF course

Miscellaneous	Covered	Most number of Mock and Bundle PDF.
Critical Reasoning	Covered	Most number of Mock and Bundle PDF.

IBPS RRB Clerk Mains Held on 24th September 2022

Questions Type	Status	Covered in
Linear seating arrangement (Bi-directional)	Covered	IBPS RRB office Assistant Mains 2022 Mock Test 1 (1-3), IBPS RRB Officer Scale I Mains 2022 Mock Test 8 (7-11), RRB PO & SBI clerk Mains bundle course 2022 Day-25 (11-15).
Unknown linear seating arrangement	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-11 (1-5), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-26 (11-15), IBPS RRB office Assistant Mains 2022 Mock Test 3 (6-9), IBPS RRB office Assistant Mains 2022 Mock Test 6 (9-13).
Designation puzzle	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-11 (6-10), SBI Clerk & RRB PO Mains bundle course 2022 Day-20 (6-10), IBPS RRB office Assistant Mains 2022 Mock Test 5 (6-10), IBPS RRB Officer Scale I Mains 2022 Mock Test 9 (15-19).
Direction sense	Covered	Most number of Mock and Bundle PDF.
Sequence puzzle	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-26 (6-10), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-40 (16-20), IBPS RRB Officer Scale I Mains 2022 Mock Test 3 (22-26).
Order and ranking	Covered	Most number of Mock and Bundle PDF.

Question analysis with Our Mock Test & Bundle PDF course

Circular arrangement	Covered	IBPS RRB office Assistant Mains 2022 Mock Test 1 (1-5), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-1 (16-20).
Inequality	Covered	Most number of Mock and Bundle PDF.
Day puzzle-2 variables	Covered	RRB PO & SBI Clerk Mains bundle course 2022 Day-15 (1-5), IBPS RRB office Assistant Mains 2022 Mock Test 5 (30-34).
Blood relation	Covered	Most number of Mock and Bundle PDF.

IBPS Clerk Mains Held on 8th October 2022

Questions Type	Status	Covered in
Input Output – Number based	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-33 (11-15), RRB PO & SBI Clerk Mains bundle course 2022 Day-4 (6-10), IBPS Clerk Mains 2022 Mock test 3 (91-95).
Miscellaneous	Covered	Most number of Mock and Bundle PDF.
Coded blood relation	Covered	RRB PO & SBI Clerk Mains bundle course 2022 Day-49 (11-15), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-2 (11-15), IBPS Clerk Mains 2022 Mock test 4 (91-93).
Floor with Flat – 2 variables	Covered	RRB PO & SBI Clerk Mains bundle course 2022 Day-3 (11-15), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-17 (6-10), IBPS RRB Officer Scale I Mains 2022 Mock Test 3 (7-11).

Question analysis with Our Mock Test & Bundle PDF course

Designation puzzle – New type	Not Covered	Given in memory based PDF,
Day based puzzle – New type	Not Covered	Given in memory based PDF,
Syllogism	Covered	Most number of Mock and Bundle PDF.
Input- Output – New type	Not Covered	Given in memory based PDF,
Coded Inequality	Covered	RRB PO & SBI Clerk Mains bundle course 2022 Day-3 (16-20), IBPS Clerk Mains 2022 Mock test 1 (98-100).
Data sufficiency – 2 statements based	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-44 (6-10), IBPS Clerk Mains 2022 Mock test 6 (128-130).
Matrix based puzzle – New type	Not Covered	Given in memory based PDF,
Age puzzle – Reverse type	Covered	RRB PO & SBI Clerk Mains bundle course 2022 Day-11 (16-20), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-14 (6-10).
Time based puzzle	New type	Not covered the exact model but covered timing based puzzle model questions in RRB Clerk & IBPS clerk Mains bundle course 2022 Day-28 (16-20). Course) -> RRB Clerk & IBPS clerk Mains bundle course 2022 Day-28 (16-20).
Critical Reasoning	Covered	Most number of Mock and Bundle PDF.

Question analysis with Our Mock Test & Bundle PDF course

IBPS PO MAINS Held on 26th November 2022

Questions Type	Status	Covered in
Table based puzzle	Covered	SBI PO & IBPS PO Mains Bundle course-2022 Day 1 (11-15), SBI PO & IBPS PO Mains Bundle course-2022 Day 21 (11-15), SBI Clerk & IBPS RRB PO Mains Bundle course-2022 Day 48 (6-10), IBPS PO Mains Mock test 1 (10-13).
Data sufficiency	Covered	Number of Mock and Bundle PDF
Coding-Decoding	Not covered	Given in memory based PDF
Parallel arrangement with blood relation	Covered	SBI PO & IBPS PO Mains Bundle course-2022 Day 16 (16-20), SBI PO & IBPS PO Mains Bundle course-2022 Day 49(1-5), SBI Clerk & IBPS RRB PO Mains Bundle course-2022 Day 9 (6-10), IBPS PO Mains Mock test 8 (22-25)
Floor puzzle with two variables	Covered	SBI PO & IBPS PO Mains Bundle course-2022 Day 9 (16-20), SBI Clerk & IBPS RRB PO Mains Bundle course-2022 Day 6(6-10), IBPS PO Mains mock day 3 (5-7)
Coded inequality	Covered	Most number of Mock and Bundle PDF
Direction sense	Not covered	Given in memory based PDF
Designation puzzle (New type)	Covered	IBPS PO Mains Mock test 6 (8-11)
Coded blood relation	Covered	Most number of Mock and Bundle PDF

Question analysis with Our Mock Test & Bundle PDF course

Circular Bidirectional	Covered	SBI Clerk & IBPS RRB PO Mains Bundle course-2022 Day 23 (1-5), IBPS Clerk & IBPS RRB Clerk Mains Bundle course-2022 Day 10 (6-10), IBPS Clerk & IBPS RRB Clerk Mains Bundle course-2022 Day 40 (6-10)
Critical Reasoning	Covered	Most number of Mock and Bundle PDF.

SBI Clerk Mains Held on 14th January 2023

Questions Type	Status	Covered in
Table based puzzle – 2 variables	Covered	SBI PO & IBPS PO Mains bundle course 2022 Day-28 (6-10), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-4 (1-5), SBI CLERK Mains 2022 Mock Test 2 (181-185).
Input Output – Number based	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-41 (6-10), SBI PO & IBPS PO Mains bundle course 2022 Day-13 (16-20), SBI CLERK Mains 2022 Mock Test 1 (141-144).
Coding decoding – Symbol based	Covered	SBI CLERK Mains 2022 Mock Test 9 (145-148).
Month with date	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-37 (1-5), RRB Clerk & IBPS clerk Mains bundle course 2022 Day-13 (11-15).
Parallel seating arrangement (Bi-directional)	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-15 (6-10), IBPS CLERK Mains Mock test 9 (100-104).

Question analysis with Our Mock Test & Bundle PDF course

Coded Syllogism	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-7 (11-15), SBI PO & IBPS PO Mains bundle course 2022 Day-27(11-15), SBI CLERK Mains 2022 Mock Test 4 (159-161).
Miscellaneous	Covered	Most number of Mock and Bundle PDF.
Coded direction sense	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-23 (16-20), IBPS CLERK Mains Mock test 2 (100-102), SBI PO & IBPS PO Mains bundle course 2022 Day-33 (1-5)
Blood relation with order and ranking	Covered	SBI Clerk & RRB PO Mains bundle course 2022 Day-7 (16-20), SBI PO & IBPS PO Mains bundle course 2022 Day-15 (6-10), SBI CLERK Mains 2022 Mock Test 1 (183-185).
Data sufficiency	Covered	Most number of Mock and Bundle PDF
Critical Reasoning	Covered	Most number of Mock and Bundle PDF.

SBI PO Mains Held on 30th January 2023

Questions Type	Status	Covered in
Unknown floor with flat	Covered	SBI PO & IBPS PO Mains bundle course 2022 Day-12 (16-20), SBI Clerk & RRB PO Mains bundle course 2022 Day-8 (11-15), SBI Clerk Mains 2022 Mock Test 2 (161-164).
Direction sense	New type	Given in memory based PDF
Floor puzzle	New type	Given in memory based PDF
Coded syllogism	Covered	RRB Clerk & IBPS clerk Mains bundle course 2022 Day-17 (11-15), SBI PO Mains 2022 Mock Test 9 (25-27).

Question analysis with Our Mock Test & Bundle PDF course

Coded blood relation	Covered	SBI PO & IBPS PO Mains bundle course 2022 Day-25 (16-20), SBI PO Mains 2022 Mock Test 1 (29-30).
Day puzzle (2 variables-but in real exam they given numerical value as second variable)	Covered	SBI PO & IBPS PO Mains bundle course 2022 Day-17 (1-5)
Input Output-Number based	Covered	SBI PO & IBPS PO Mains bundle course 2022 Day-13 (16-20), SBI PO Mains 2022 Mock Test 3 (17-20).
Data sufficiency	Covered	Most number of Mock and Bundle PD
Critical Reasoning	Covered	Most number of Mock and Bundle PDF.

Beginner's Quiz

➤ What are the benefits of Beginner's Quiz?

All banking Aspirants, who have cleared the exams, were once Beginners. It is a level at which the aspirants need to “**learn the basics thoroughly**”. Our team has prepared this Beginners quiz exclusively for the aspirants who need to learn basics. The level of questions in this Beginner's Quiz are at **one step below the real exam level**. After practicing all topics in our Beginner's quiz, you can be thorough with the basics. Also, you can easily analyze your strong and weaker areas.

Sample Questions for Beginners Quiz

Directions (1-3): Study the following information carefully and answer the given questions.

Five persons viz., A, B, C, D and E sold different number of mobiles. Only two persons sold more mobiles than C. E sold less mobiles than A but more than B, who is not sold the lowest number of mobiles. The one who sold the highest number of mobiles sold 25 mobiles.

1) If the sum of the number of mobiles sold by A and B is 37, then what may be the number of mobiles sold by D?

- a) 12
- b) 14
- c) 13
- d) 11
- e) 15

2) How many persons sold less mobiles than E?

- a) One
- b) Two
- c) Three
- d) More than three

e) None

3) If the difference between the number of mobiles sold by A and C is 7, then how many mobiles are sold by C?

- a) 18
- b) 20
- c) 28
- d) 17
- e) 16

Direction (4-8): Study the following information carefully and answer the given questions.

Eight persons - P, Q, R, S, T, U, V and W live on four different floors of a four-storey building where the lowermost floor is numbered one and the floor immediately above it is numbered two and so on.

Note-I: Each floor has two flats viz., Flat-A and Flat-B, where Flat A is to the west of flat B.

Note-II: Flat B of floor numbered two is immediately above Flat B of floor numbered one, Similarly Flat A of floor numbered three is

immediately below Flat A of floor numbered four and so on.

Note-III: The area of each flat on each floor is same.

Note-IV: only one person lives in each flat and only two persons live on each floor.

S lives on an even numbered floor and lives two floors below U's flat. P lives below S and both live in different flats. As many floors below P as above R. Only one floor is between R and W. Q lives to the north of V. No one lives to the east of T.

4. Who among the following persons lives two floors below T's flat?

- a) V
- b) P
- c) W
- d) U
- e) S

5. Which among the following pair of persons live on the same floor?

- a) RT
- b) SP
- c) VW
- d) UR
- e) QV

6. Who among the following person lives to the immediate south-west of R?

- a) S
- b) V
- c) Q
- d) U
- e) P

7. Who among the following person lives in Flat A of floor 2?

- a) The one who lives immediately above R
- b) Q
- c) W
- d) V.
- e) The one who lives west of W.

8. Which of the following statements is/are TRUE as per the given arrangement?

- a) No one lives above U
- b) Only one floor is between S and V
- c) Q lives in flat B
- d) Both a and b
- e) Both a and c

Directions (9-12): Study the following information carefully and answer the given questions.

G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥

9. How many such consonants are there in the given series each of which is immediately preceded by a symbol and immediately followed by a vowel?

- a) Two
- b) One
- c) Three
- d) Four
- e) None

10. If all the symbols in the given series are dropped, then which of the following element will be fifteenth from the right end?

- a) Z
- b) S
- c) X
- d) M
- e) A

11. Which of the following element is seventh to the left of the seventeenth element from the right end of the given series?

- a) %
- b) E
- c) R
- d) @
- e) &

12. How many letters which come after M in the English alphabetical series are between the elements which are sixth from both left and right end of the given series?

- a) Six
- b) Eight
- c) Five
- d) Nine
- e) Three

Directions (13-15): Study the following information carefully and answer the given questions.

Q is the son of O who is the mother of only two children. Q is the brother-in-law of R who has no

siblings. S is the daughter-in-law of N who is married to O. T is the grandson of O. P is the father of T.

13) How many married couples are there in the family?

- a) Five
- b) Four
- c) One
- d) Three
- e) Two

14) If O has a sister U, then how is U related to P?

- a) Aunt
- b) Mother
- c) Grandmother
- d) Granddaughter
- e) Niece

15) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) N
- b) S
- c) P
- d) T
- e) Q

Direction (16-20) Study the following information carefully and answer the given questions.

Seven persons - P, Q, R, S, T, U, and V joined an organization in seven different years viz., 1994, 2000, 2005, 2010, 2016, 2019, and 2021.

Q joined the organization six years after T. Only two persons joined between Q and P. U joined immediately before R, who joined in an odd-numbered year. V joined five years before S.

16. How many persons joined the organization after S?

- (a) One
- (b) Two
- (c) Three
- (d) None
- (e) More than three

17. If V is related to U and T is related to S in a certain way, then in the same way who among the following person is related to P?

- (a) S
- (b) T
- (c) R
- (d) Q
- (e) None of these

18. U joined the organization in which of the following year?

- (a) 2021
- (b) 2019
- (c) 2000
- (d) 2005
- (e) 2016

19. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- (a) Q
- (b) S
- (c) R
- (d) T
- (e) P

20. Who among the following person joined the organization in 2010?

- (a) The one who joined immediately after V
- (b) Q
- (c) V
- (d) The one who joined immediately before R
- (e) P

Direction (21-24): Study the following information carefully and answer the question given below.

W T Q F O L B U C I K M O A M H G S
L J O G D

21) If the first 15 alphabets are arranged in reverse order, then which of the following alphabet will be 14th from the right end of the given series?

- a. Q
- b. W
- c. L
- d. H
- e. J

22) How many such consonants are there in the given series each of which is immediately preceded by a vowel?

- a. One
- b. Two
- c. Three
- d. None
- e. More than three

23) How many such vowels are there in the given series each of which is immediately preceded by a vowel and immediately followed by a consonant?

- a. One
- b. None
- c. Three
- d. Four
- e. Two

24) Which of the following alphabet will be fourth to the left of the tenth alphabet from the left end of the given series?

- a. S
- b. L
- c. G
- d. O
- e. B

Direction (25-29): Study the following information carefully and answer the given question.

Eight persons - S, T, U, V, W, X, Y and Z were born in eight different months viz., May, June,

July, August, September, October, November and December of the same year.

U was born in the month which has an odd number of days but after September. Only four persons were born between Z and U. Only two persons were born between Z and X. As many persons born before X as after S. W was born immediately before V. Neither W nor Y was born in June.

25) X was born in which of the following month?

- a. August
- b. December
- c. July
- d. May
- e. November

26) Who among the following person was born after U?

- a. Z
- b. T
- c. W
- d. X
- e. No one

27) How many persons were born between S and Z?

- a. Two
- b. Three
- c. Six
- d. Four
- e. Five

28) Who among the following person was born in September?

- a. X
- b. V
- c. W
- d. S
- e. Z

29) Which of the following pair is not true as per the given arrangement?

- a. August - X
- b. June - T
- c. May - Z
- d. October - U
- e. December - Y

Directions (30-33): Study the following information carefully and answer the given questions. In a certain code language

'Economic climate Change' is coded as 'ew or le',

'Education economic higher' is coded as 'in ew no',

'Change nation policy' is coded as 'sd le dr',

'Education connection economic' is coded as 'db ew no'.

(Note: All the given codes are two letter codes only)

30. What is the code for 'Nation' in the given code language?

- (a) sd
- (b) le
- (c) dr

(d) in

(e) Can't be determined

31. What does 'db' represent in the given code language?

- (a) Education
- (b) policy
- (c) climate
- (d) connection
- (e) None of these

32. Which of the following may be the code for 'change city policy' in the given code language?

- (a) le yt dr
- (b) le yt ew
- (c) sd dr le
- (d) or le dr
- (e) le db xy

33. What is the code for 'climate' in the given code language?

- (a) or
- (b) le
- (c) ew
- (d) in
- (e) None of these

Directions (34-38): Study the following information carefully and answer the given questions. In a mall, five dummies- R, S, T, U and V are standing in a straight line and facing the north direction. Each of them wears different

types of dresses-Gown, Jumper, Apron, Maxi and Coat.

S stands at one of the extreme ends. Only two dummies stand between S and the one which wears Maxi. The one which wears Maxi stands immediate left of V. Only one dummy stands between V and U. As many dummies stand to the right of U as to the left of the one which wears Jumper. T wears Coat. R does not stand adjacent to the one which wears Apron.

34) Which of the following dummy wears Gown?

- a) S
- b) The one which stands at the right end
- c) R
- d) The one which stands immediate right of T
- e) None of these

35) How many dummies stand between R and T?

- a) One
- b) Two
- c) None
- d) Three
- e) None of these

36) What is the position of U with respect to the one which wears Apron?

- a) Immediate left
- b) Second to the right
- c) Third to the left
- d) Fourth to the right
- e) Immediate right

37) Four of the following five are alike in a certain way based on the given arrangement and thus

form a group. Which one of the following does not belong to the group?

- a) S-Coat
- b) V-Maxi
- c) U-Jumper
- d) R-Gown
- e) T-Apron

38) If S is related to T and R is related to V in a certain way, then in the same way U is related to which of the following dummy?

- a) V
- b) R
- c) S
- d) T
- e) None of these

Directions (39-41): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

39. Statements:

All Teddies are Barbie

Only a few Panda is Barbie

All Panda is Kitty

Conclusions:

I. Some Teddies are not kitty

II. All Teddies are Kitty

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

40. Statements:

Only a few notes are Book

All books are paper

Some Books are not file

Conclusions:

I. All papers can be file

II. No file is note

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

41. Statements:

All Lily is Jasmine

Only a few lily is Daisy

Some Lotus is Daisy

Conclusions:

I. Some Jasmine is not daisy

II. All Jasmine is daisy

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

Direction (42-46): Study the following information carefully and answer the given questions

Eight persons - A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them are sitting at the corners and facing away from the centre while four of them are sitting in the middle of the sides and facing the centre.

C sits second to the left of E. One person sits between C and B. H sits third to the left of B. F is an immediate neighbour of E. As many persons sit between H and F as between F and G. D sits second to the right of G. C and A do not face each other.

42. Who among the following person sits immediate right of A?

- a) H
- b) D
- c) B
- d) E
- e) F

43. Which of the following statements is/are false as per the given arrangement?

- a) E and B face each other
- b) H sits third to the left of C
- c) Only one person sits between G and D, when counted from the left of G
- d) All the given statements are false
- e) All the given statements are true

44. Who among the following persons are immediate neighbours?

- a) HA
- b) DG
- c) FA
- d) FH
- e) CD

45. Four of the following five are alike in a certain way based on the given arrangement and thus

form a group. Which one of the following does not belong to the group?

- a) H
- b) F
- c) D
- d) G
- e) C

46. How many persons are sitting between D and E when counted from the right of E?

- a) One
- b) Two
- c) Three
- d) More than three
- e) No one

Directions (47-50): Study the following information carefully and answer the given questions.

2 8 5 1 9 5 4 8 1 7 9 4 6 3 8 7 4 9 6 2 1 7

47) How many such prime numbers are there in the given series each of which is immediately followed by an even number?

- a) Three
- b) Five
- c) Two
- d) Six
- e) Four

48) Which of the following number is fifth to the left of the seventh number from the right end of the given series?

- a) 7
- b) 4

- c) 9
- d) 6
- e) 1

49) What will be the square of the number which lies exactly between the ninth number from the right end and the twelfth number from the left end?

- a) 16
- b) 64
- c) 36
- d) 49
- e) 9

50) How many such even numbers are there in the given series each of which is immediately preceded by an odd number and immediately followed by an even number?

- a) Three
- b) Four
- c) Two
- d) Five
- e) One

Directions (51-55): Study the following information carefully and answer the given questions

Seven persons - A, B, C, D, E, F and G are sitting around a circular table facing the centre.

G is an immediate neighbour of A. E sits second to the left of G. Only one person sits between E and F (either from left or right). B sits to the

immediate right of F. Only one person sits between B and C (either from left or right). D sits third to the right of C.

51) What is the position of C with respect to F?

- a) Fourth to the right
- b) Third to the left
- c) Second to the right
- d) Fifth to the left
- e) Third to the right

52) Which of the following statement is true as per the given arrangement?

- a) B sits fourth to the right of G
- b) Only three persons sit between E and C
- c) A sits to the immediate left of F
- d) D sits third to the left of G
- e) None of the statements above are true

53) Who among the following person sits third to the left of A?

- a) The one who sits fourth to the right of G
- b) D
- c) F
- d) The one who sits to the immediate left of C
- e) G

54) If D is related to G, B is related to D in a certain way, then in the same way who among the following person is related to E?

- a) A
- b) G
- c) B
- d) C
- e) D

55) If all the persons are made to sit in alphabetical order in an anticlockwise direction from A, then how many persons will remain unchanged in their positions? (Excluding A)

- a) Five
- b) Four
- c) One
- d) Two
- e) Three

Direction(56-58): In the given questions the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

56. Statements:

$P > Q \geq B < M; J \leq K < U = B$

Conclusions:

- I) $M > J$
- II) $Q \geq U$
- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Either conclusion I or II is true
- d) Neither conclusion I nor II is true
- e) Both conclusions I and II are true

57) Statements:

$F \leq Y < A \leq L; S > R \geq A < T$

Conclusions:

- I) $L \geq R$
- II) $F < T$
- a) Only conclusion I is true
- b) Only conclusion II is true

- c) Either conclusion I or II is true
- d) Neither conclusion I nor II is true
- e) Both conclusions I and II are true

58) Statements:

$$Z < J \leq G > V; K = B \leq J < F$$

Conclusions:

- I) $G > B$
- II) $G = B$
- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Either conclusion I or II is true
- d) Neither conclusion I nor II is true
- e) Both conclusions I and II are true

59. If 2 is added to all the odd digits and 1 is subtracted from all the even digits of the given

number "624718451", then how many digits are repeated more than once?

- a) Two
- b) One
- c) None
- d) More than three
- e) Three

60. If all the letters of the word "DISGRACE" are changed to the immediate next letter as per the alphabetical series, then how many vowels are there in the newly formed word?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

ANSWER WITH EXPLANATION

Directions (1-3):

- 1) Answer: D
 - 2) Answer: C
 - 3) Answer: A
- $A(25) > E > C > B > D$

Directions (4-8)

- 4. Answer: B
- 5. Answer: D
- 6. Answer: C
- 7. Answer: E
- 8. Answer: A

Final arrangement:

Floors	Flat A	Flat B
4	U	R
3	Q	T
2	S	W
1	V	P

We have,

- S lives on an even numbered floor and lives two floors below U's flat.
- P lives below S and both live in different flats.

From the above conditions, we have two possibilities:

	Case 1		Case 2	
Floors	Flat A	Flat B	Flat A	Flat B
4	U			U
3				
2	S			S
1		P	P	

Again we have,

- As many floors below P as above R.
- Only one floor is between R and W.

	Case 1		Case 2	
Floors	Flat A	Flat B	Flat A	Flat B
4	U	R	R	U
3				
2	S	W	W	S
1		P	P	

Again we have,

- Q lives to the north of V.
- No one lives to the east of T.

While applying the above conditions, case 2 gets eliminated, because no one should live to the east of T. Thus, case 1 gives the final arrangement.

	Case 1		Case 2	
Floors	Flat A	Flat B	Flat A	Flat B
4	U	R	R	U
3	Q	T	T	Q
2	S	W	W	S
1	V	P	P	V

9) Answer: C

Given series:

G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥
G + L A @ M & % X E O Y U \$ # F * D N © C I Z ^
R S > E T ¥

10) Answer: C

Given series:

G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥
G L A M X E O Y U F D N C I Z R S E T

11) Answer: E

Given series:

G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥
Seventeenth element from the right end is \$, then
seventh to the left of \$ is &.
G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥

12) Answer: A

Given series:

G + L A @ M & % X E O Y U \$ # F * D N © C I Z
^ R S > E T ¥
G + L A @ M & % X E O Y U \$ # F * D N © C I Z ^
R S > E T ¥

Sixth element from the left end is M and the sixth
element from the right end is R, then in between

M and R the letters which come after M in the alphabetical series are X, O, Y, U, N and Z

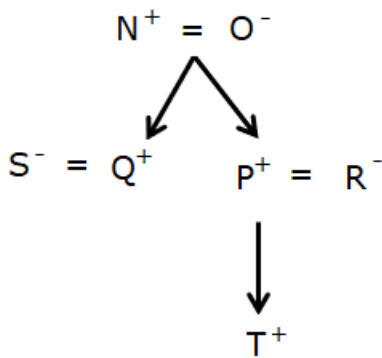
Directions (13-15):

13) Answer: D

14) Answer: A

15) Answer: B (All of them are males, except option b)

Solution:



Direction (16-20)

16) Answer: C

17) Answer: D

18) Answer: B

19) Answer: C (except R, all of them joined the organization in an even numbered year)

20. Answer: A

Final arrangement:

Years	Persons
1994	T
2000	Q
2005	V
2010	S
2016	P

2019	U
2021	R

We have,

- Q joined the organization six years after T.
- Only two persons joined between Q and P.

From the above conditions, we have two possibilities-

	Case-1	Case-2
Years	Persons	Persons
1994	T	
2000	Q	P
2005		
2010		T
2016	P	Q
2019		
2021		

Again we have,

- U joined immediately before R who joined in an odd-numbered year.
- V joined five years before S.

From these conditions, case 2 will be eliminated because we cannot place V and S. Hence Case 1 shows the final arrangement

	Case-1	Case-2
Years	Persons	Persons
1994	T	
2000	Q	P
2005	V	
2010	S	T

2016	P	Q
2019	U	U
2021	R	R

Direction (21-24):

21. Answer: C

If the first 15 alphabets are arranged in reverse order, then

M A O M K I C U B L O F Q T W H G S
L J O G D

Alphabet L is placed 14th from the right end.

22. Answer: E

Five consonants are there in the given series which is immediately preceded by a vowel.

W T Q F O L B U C I K M O A M H G S
L J O G D

23. Answer: A

One vowel is in the given series which is immediately preceded by a vowel and immediately followed by a consonant.

W T Q F O L B U C I K M O A M H G S
L J O G D

24. Answer: B

L is fourth to the left of the tenth alphabet from the left end.

Direction (25-29)

25) Answer: A

26) Answer: C

27) Answer: B

28) Answer: D

29) Answer: E

Final arrangement

Month	Persons
May	Z
June	T
July	Y
August	X
September	S
October	U
November	W
December	V

We have,

- U was born in the month which has an odd number of days but after September.
- Only four persons were born between Z and U
- Only two persons were born between Z and X.

From the above condition, there are two possibilities

Case 1		Case 2	
Month	Persons	Month	Persons
May	Z	May	
June		June	
July		July	Z
August	X	August	
September		September	

October	U	October	X
November		November	
December		December	U

Again we have,

- As many persons born before X as after S.
- W was born immediately before V.
- Neither W nor Y was born in June.

From the above condition, case 2 gets eliminated because we cannot place S. Hence case 1 shows the final arrangement.

Case 1		Case 2	
Month	Persons	Month	Persons
May	Z	May	
June	T	June	
July	Y	July	Z
August	X	August	
September	S	September	
October	U	October	X
November	W	November	
December	V	December	U

Directions (30-33):

30. Answer: E
31. Answer: D
32. Answer: A
33. Answer: A

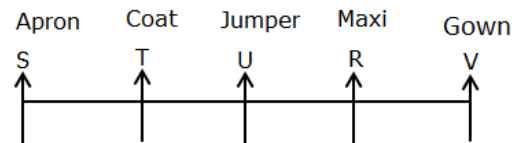
Word	Code
Economic	Ew
Change	Le

Climate	Or
Nation/ Policy	sd/dr
Higher	In
Education	no
Connection	db

Directions (34-38):

- 34) Answer: B
35) Answer: A
36) Answer: B
37) Answer: C
38) Answer: B

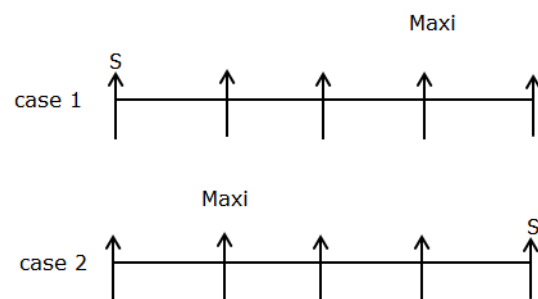
Final Arrangement



We have,

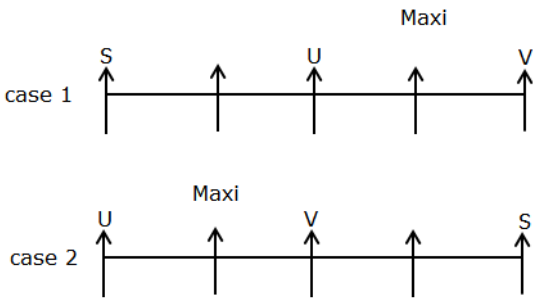
- S stands at one of the extreme ends.
- Only two dummies stand between S and the one which wears Maxi.

From the above conditions, there are two possibilities.



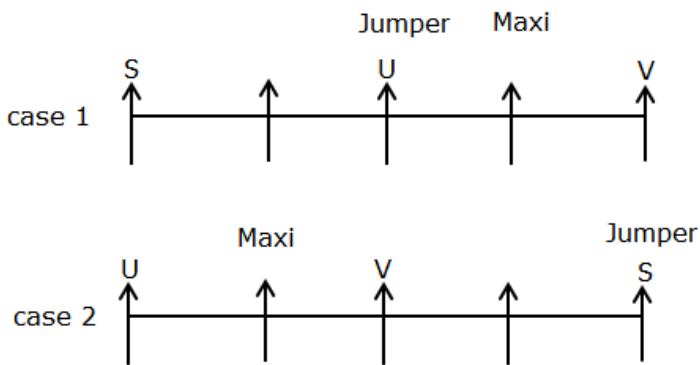
Again we have,

- The one which wears Maxi stands immediate left of V.
- Only one dummy stands between V and U.



Again we have,

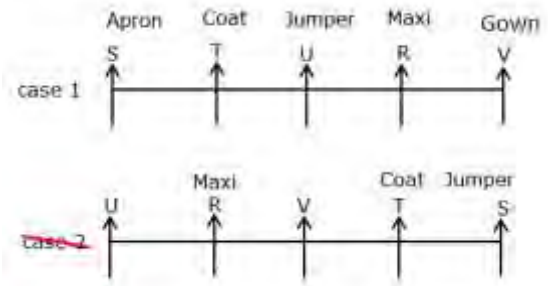
- As many dummies stand to the right of U as to the left of the one which wears Jumper.



Again we have,

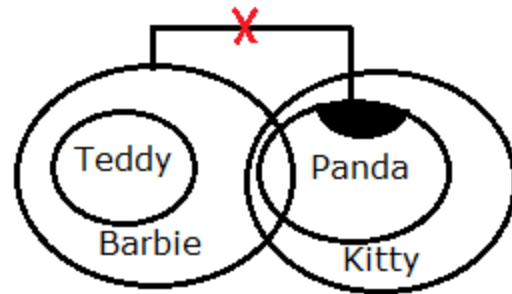
- T wears Coat.
- R does not stand adjacent to the one which wears Apron.

From the above conditions, there is no space left for the one which wears Apron in case 2. So, case 2 gets eliminated. Hence, case 1 shows the final arrangement.

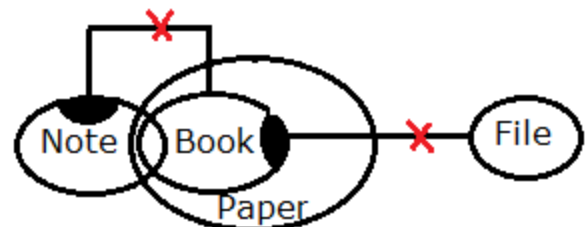


Direction(39-41)

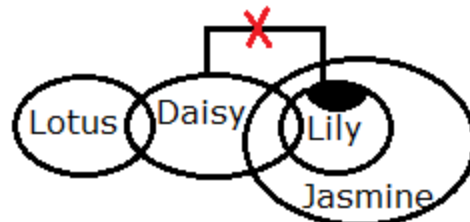
39. Answer: C



40. Answer: D



41. Answer: A



Directions (42-46)

42. Answer: B

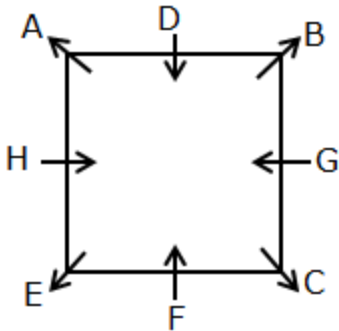
43. Answer: D

44. Answer: A

45. Answer: E (In the given option, all the persons sit in the middle of the sides of the table, except in option e)

46. Answer: B

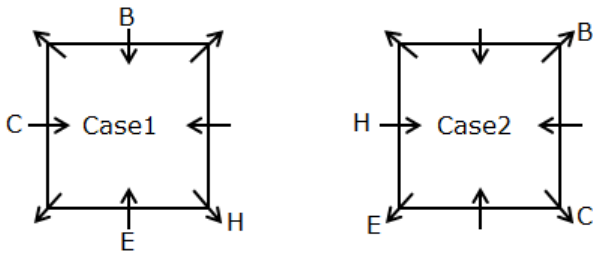
Final arrangement:



We have,

- C sits second to the left of E.
- One person sits between C and B.
- H sits third to the left of B.

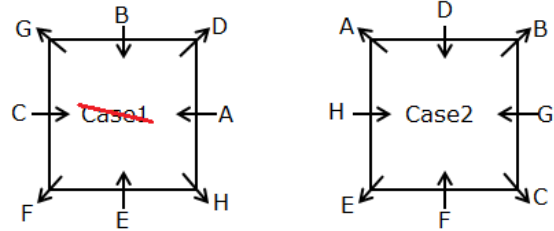
From the above conditions, we have two possibilities:



Again we have,

- As many persons sit between H and F as between F and G.
- F is an immediate neighbour of E.
- D sits second to the right of G.
- C and A do not face each other.

While applying the above conditions, case 1 gets eliminated, because C faces A. Thus case 2 gives the final arrangement.



47. Answer: E

Given series

2 8 5 1 9 5 4 8 1 7 9 4 6 3 8 7 4 9 6 2 1 7

48. Answer: C

Given Series

2 8 5 1 9 5 4 8 1 7 9 4 6 3 8 7 4 9 6 2 1 7

49. Answer: c

Given Series

2 8 5 1 9 5 4 8 1 7 9 4 6 3 8 7 4 9 6 2 1 7

50. Answer: A

Given Series

2 8 5 1 9 5 4 8 1 7 9 4 6 3 8 7 4 9 6 2 1 7

Direction (51-55):

51) Answer: E

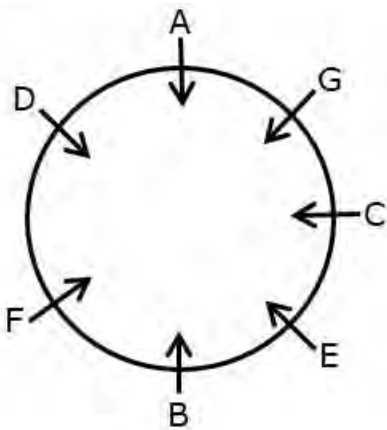
52) Answer: A

53) Answer: D

54) Answer: B

55) Answer: D

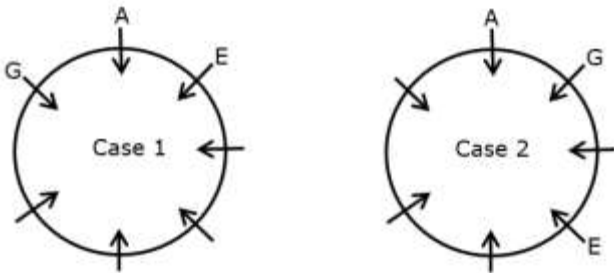
Final arrangement:



We have,

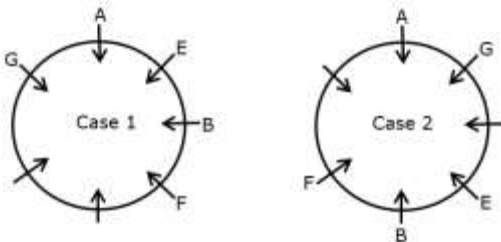
- G is an immediate neighbour of A.
- E sits second to the left of G.

From the above conditions, there are two possibilities



Again we have,

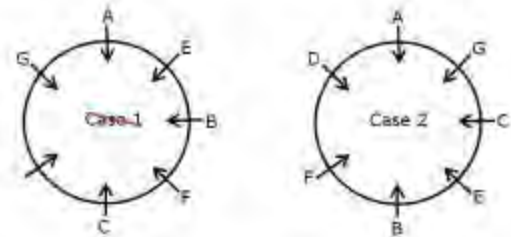
- Only one person sits between E and F (either from left or right).
- B sits to the immediate right of F.



Again we have,

- Only one person sits between B and C (either from left or right).
- D sits third to the right of C.

In case 1, D cannot be placed. So case 1 gets eliminated, hence case 2 shows the final arrangement.



56. Answer: E

- I) $M > J$ ($M > B = U > K \geq J$) True
- II) $Q \geq U$ ($Q \geq B = U$) True

57. Answer: B

- I) $L \geq R$ ($L \geq A \leq R$) False
- II) $F < T$ ($F \leq Y < A < T$) True

58. Answer: C

- I) $G > B$ ($G \geq J \geq B$) False
- II) $G = B$ ($G \geq J \geq B$) False

Combining both, either conclusion I or II is true

59. Answer: A

624718451

513937373

3 and 7 repeated more than once

60. Answer: A

DISGRACE

E J T H S B D F

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Directions (1-4): Study the following information carefully and answer the questions given below.

345 721 925 163 249

1. If all the digits are written in ascending order within each number from the left end, then which of the following number will be the third-lowest?

- a) 345
- b) 721
- c) 925
- d) 163
- e) 249

2. If the second digit of the lowest number is added to the third digit of the second-highest number, then which of the following will be the resultant?

- a) 6

- b) 7
- c) 8
- d) 9
- e) 10

3. If the position of the first and the third digits are interchanged within each number, then what would be the sum of the second-lowest and the third-highest number thus obtained?

- a) 980
- b) 895
- c) 1485
- d) 890
- e) 468

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4. If all the even digits in each number are dropped, then how many numbers will be exactly divisible by 5?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

Direction (5-9): Study the following information carefully and answer the questions given below

Six persons - S, T, U, V, W and X are attending the exam of six different subjects viz. Physics, Chemistry, Biology, Commerce, English and Science on different days from Monday to Saturday of the same week.

W attends the exam on one of the days after Wednesday. Only two persons attend between W and the one who attends Physics exam. X attends immediately after the one who attends Physics exam. As many persons attend before X as after the one who attends Commerce exam. T attends two days before the one who attends Commerce exam. Only two persons attend between T and the one who attends English exam. Neither U nor V attends Commerce exam. V attends two days before the one who attends Science exam. Both V and the one who attends Chemistry exam are attending the exam on consecutive days.

5. Who among the following person attends the exam on Thursday?

- a) S
- b) V
- c) The one who attends Biology exam
- d) X
- e) The one who attends English exam

6. S attends the exam on which of the following day?

- a) Monday
- b) Tuesday
- c) Wednesday
- d) Thursday
- e) Friday

7. If T is related to Commerce and W is related to English in a certain way, then in the same way who among the following person is related to Biology?

- a) V
- b) S
- c) X
- d) T
- e) U

8. How many persons attend the exam between V and the one who attends Biology exam?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

9. Which of the following statement is true as per the given arrangement?

- a) V attends the exam on Tuesday
- b) Only two persons attend between W and V
- c) S attends English exam
- d) T attends immediately before S
- e) None of the statement is false

Directions (10-13): Study the following information carefully and answer the questions given below.

In a certain code language,

“Cultural program in college” is coded as “by tk hz dm”

“Students participate very enthusiastic” is coded as “kl rn qr pj”

“Students fantastic dance program” is coded as “rn gk ub dm”

“Enthusiastic and Fantastic cultural” is coded as “qr xd ub by”

(Note: All the given codes are two letter codes only)

10. What is the code for the phrase “program and dance” in the given code language?

- a) gk xd dm
- b) dm gk qr
- c) kl gk rn
- d) xd by ub
- e) by pj gk

11. What is the phrase for the code “kl rn” in the given code language?

- a) Students participate

- b) Very program
- c) Enthusiastic college
- d) Can't be determined
- e) Very students

12. What is the phrase for the given code “qr tk by” in the given code language?

- a) College cultural enthusiastic
- b) In students dance
- c) Enthusiastic in cultural
- d) Fantastic college cultural
- e) Either a or c

13. What is the code for the word “Fantastic” in the given code language?

- a) gk
- b) ub
- c) dm
- d) rn
- e) xd

Direction (14-18): Study the following information carefully and answer the questions given below.

A certain number of persons are sitting in a linear row such that all of them are facing towards North. Only three persons sit between Z and S, who sits fifth to the left of H. As many persons sit between Z and H as between S and Q, who sits to the right of S. I sits four places away from Q and third from one of the extreme ends. C sits between S and H but neither sits adjacent to S nor H. A sits eighth to the left of C. Z doesn't sit

adjacent to A. B sits third to the right of A. Both I and B are not immediate neighbours.

14. If A sits at one of the extreme ends, then how many persons are there in the row?

- a) 11
- b) 15
- c) 19
- d) 22
- e) 23

15. Who among the following person sits third to the right of B?

- a) The one who sits second to the left of H
- b) Q
- c) Z
- d) I
- e) The one who sits second to the left of C

16. What is the position of Q with respect to S?

- a) Seventh to the right
- b) Ninth to the right
- c) Immediate right
- d) Sixth to the right
- e) None of these

17. The number of persons sitting between C and H is one less than the number of persons sitting between ____.

- I. Q and I
 - II. I and S
 - III. Z and S
- a) Only II
 - b) Only I
 - c) Both II and III

d) Both I and III

e) Only III

18. If E sits adjacent to Z, then what is the position of B with respect to E?

- a) Second to the left
- b) Second to the right
- c) Immediate left
- d) Immediate right
- e) Third to the right

Direction (19-22): Study the following information carefully and answer the questions given below.

D M 8 & H 4 V % W K 2 A @ L 6 * 2 7 P Z 1 O R
5 Y U J 9 T 3 \$

19. How many such consonants are there in the given series each of which is immediately preceded by a number but not immediately followed by a symbol?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

20. How many such numbers are there in the given series each of which is either immediately preceded by a consonant or immediately followed by a symbol but not both?

- a) Five
- b) One
- c) Three
- d) Two
- e) Four

21. If all the symbols and vowels are dropped from the given series, then which of the following element is the seventh to the right of the twelfth element from the right end?

- a) Z
- b) V
- c) 7
- d) K
- e) Y

22. The number of elements to the right of the second symbol from the left end is the same as the number of elements to the left of ____.

- a) Y
- b) 5
- c) J
- d) P
- e) U

Direction (23-27): Study the following information carefully and answer the questions given below.

Ten persons are sitting in two parallel rows containing five persons each in such a way that there is an equal distance between adjacent persons. In row 1: R, S, T, U and V are seated and all of them are facing south. In row 2: F, G, H, I and J are seated and all of them are facing north. Each person in row 1 faces another person in row 2.

Only two persons sit between T and V, who sits at one of the extreme ends of the row. Only one person sits between J and the one who faces T. G sits three places away from J. Only two

persons sit between S and R, who doesn't face G. H sits immediate left of the one who faces U. I is not an immediate neighbour of H.

23. Who among the following pair of persons sit at the extreme end?

- a) T, I
- b) G, U
- c) G, V
- d) S, J
- e) U, F

24. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) R
- b) F
- c) H
- d) I
- e) T

25. Who among the following person sits second to the left of I?

- a) The one who faces T
- b) G
- c) The one who faces U
- d) J
- e) No one

26. How many persons sit to the right of J?

- a) One
- b) Two
- c) Three

- d) Four
- e) None

27. Which of the following statement is true as per the given arrangement?

- a) Both H and J sit adjacent to each other
- b) U faces J
- c) T sits second to the right of the one who faces J
- d) F sits immediate left of H
- e) None is true

Directions (28-31): Study the following information carefully and answer the questions given below

OHT	ASG	KJL	PBQ
	NDE		

28. If all the letters are arranged in alphabetical order within the word, then how many words remain unchanged?

- a) None
- b) One
- c) Two
- d) Three
- e) More than three

29. How many letters are there in the English alphabetical series between the second letter of the second word from the left end and the third letter of the first word from the right end of the given series?

- a) 10
- b) 11
- c) 12

- d) 13
- e) 14

30. If the second and the third letters of each word are interchanged and then the first and second letters are interchanged, then how many words have formed a meaningful word?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

31. If all the letters in the words are replaced by the second preceding letters as per the English alphabetical order, then how many words will have at least one vowel? (consider immediate preceding letter of A is Z and so on)

- a) One
- b) Two
- c) Three
- d) None
- e) More than three

Directions (32-36): Study the following information carefully and answer the questions given below.

Nine persons - H, I, J, K, L, M, N, O and P watch three different genre movies viz. Crime, Comedy and Horror. At least two persons but not more than four persons watch the same genre movie. J watches the same genre movie with N but not a crime movie. L neither watches horror movie nor

watches the same genre movie with N. H watches the same genre movie only with O. Both P and N watch different genre movies. I neither watches comedy nor horror movie. Both K and M watch the same genre movie but not a comedy movie.

32. Who among the following person(s) watch horror movie?

- I. H
- II. O
- III. N
- a) Only II
- b) Only III
- c) Only I and II
- d) Only II and III
- e) All I, II and III

33. If I is related to L and N is related to K in a certain way, then in the same way who among the following person is related to O?

- a) M
- b) J
- c) H
- d) K
- e) N

34. Which of the following statement is true as per the given arrangement?

- a) J watches comedy movie
- b) H watches horror movie
- c) K watches the same genre movie as O
- d) Both P and K watch different genre movies
- e) None is true

35. Which of the following pair of persons watching the same genre movie?

- a) L, K
- b) P, M
- c) J, K
- d) I, N
- e) None of these

36. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) N-Horror
- b) I-Comedy
- c) P-Horror
- d) H-Crime
- e) J-Comedy

Direction (37-39): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

37. Statements:

Only a few data are buffer
All inputs are data
Only a few buffer is goods
All goods are stock

Conclusions:

- I. All stocks cannot be buffer
- II. Some inputs are goods is not a possibility
- a) Only conclusion I follows
- b) Only conclusion II follows

- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

38. Statements:

Only a few roots are stem

Few leaves are stem

No leave is fruit

Only a few plants are fruits

Conclusions:

I. Some plants cannot be leaves

II. All fruits can be stem

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

39. Statements:

At least some sugar is salt

All salt is pepper

Only a few flours are pepper

Only sugar is mustard

Conclusions:

I. All mustard may not be flour is a possibility

II. All flours are salt is not a possibility

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Neither conclusion I nor II follows
- e) Both conclusions I and II follow

Direction (40-44): Study the following information carefully and answer the questions given below.

Six persons - H, I, J, K, L and M are working in different designations such as Associate Professor, Professor, HOD, Principal, Dean and Managing director (MD). The designations are given in increasing order such that Associate professor is the juniormost designation and Managing Director is the seniormost designation.

They are working in six different colleges viz., AVC, BVC, FVC, SKC, BHS and VVH.

K is senior to the one who is HOD. Only two persons are designated between K and the one who works in SKC. H is two persons senior to the one who works in SKC. The one who works in BHS is immediately junior to H. The number of persons senior to the one who works in BHS is one less than the number of persons junior to M. I works in BVC and is immediately senior to the one who works in AVC. L is junior to the one who works in VVH but senior to J, who doesn't work in AVC. Either M or K works in VVH.

40. Who among the following person works in FVC College?

- a) The one who is the Dean
- b) K
- c) The one who is immediately junior to K
- d) L
- e) J

41. As many persons junior to the one who works in BHS College as senior to _____.

- a) J

- b) H
- c) I
- d) M
- e) L

42. How many persons are designated between K and L?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

43. If all the persons are arranged in alphabetical order from the seniormost designation, then the designation of how many persons remain unchanged?

- a) None
- b) Two
- c) Three
- d) Four
- e) One

44. Who among the following person is three persons senior to the one who works in BHS College?

- a) M
- b) K
- c) H
- d) I
- e) None of these

Direction (45-47): In the given question, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

45. Statements:

$M \geq S = P < B \leq E$; $C < J > T \geq P > L$; $R \geq Q < J = A$

Conclusions:

- I. $S < A$
- II. $R \geq M$
- a) Only conclusion I is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion II is true
- e) Neither conclusion I nor II is true

46. Statements:

$D \geq W > T = U \geq Z$; $S > B \leq T = E$; $M > D = F < V$

Conclusions:

- I. $V > E$
- II. $B < M$
- a) Only conclusion I is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion II is true
- e) Neither conclusion I nor II is true

47. Statements:

$Y = J \geq B < Z = T$; $B \geq I \geq H > E$; $I < K = Q$

Conclusions:

- I. $Y > K$
- II. $Q > E$
- a) Only conclusion I is true
- b) Either conclusion I or II is true

- c) Both conclusions I and II are true
- d) Only conclusion II is true
- e) Neither conclusion I nor II is true

Directions (48-52): Study the following information carefully and answer the questions given below.

Eight persons - A, E, H, K, Q, T, W and Z are sitting around a circular table in such a way that some of them are facing the centre while some of them are facing away from the centre. Not more than two persons sitting together are facing the same direction.

H sits second to the left of both A and T and faces the same direction as T. W sits adjacent to neither T nor A. E sits immediate left of W and is not an immediate neighbour of A. Only three persons sit between E and Z. The immediate neighbors of Q are facing the same direction. K faces the same direction as H. Z doesn't face the centre. Both H and Z do not face the same direction.

48. Who among the following person sits second to the right of Z?

- a) The one who sits second to the left of T
- b) Q
- c) T
- d) The one who sits immediate right of W
- e) E

49. Four of the following five are alike in a certain way based on the given arrangement and thus

form a group. Which one of the following does not belong to the group?

- a) W
- b) Z
- c) T
- d) H
- e) K

50. If all the persons are made to sit in alphabetical order in a clockwise direction with respect to A, then how many persons remain unchanged in their position, excluding A?

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

51. What is the position of Q with respect to K?

- a) Second to the left
- b) Second to the right
- c) Third to the left
- d) Immediate right
- e) Fourth to the right

52. Which of the following statement is true as per the given arrangement?

- a) Both Q and H face the same direction
- b) A is an immediate neighbour of E
- c) E sits immediate right of T
- d) Only two persons sit between W and H
- e) None is true

Direction (53-55): Study the following information carefully and answer the below questions.

H is the mother of M and has only two children. L is the daughter-in-law of H. A is the only son of M. I is the brother-in-law of L. I is an unmarried member of the family.

K is the father of I. K is the grandfather of P.

53. If N is the spouse of P, then how is N related to L?

- a) Daughter-in-law
- b) Brother
- c) Father
- d) Son-in-law
- e) Sister

54. Which of the following statements is/are true as per the given arrangement?

- I. P is the nephew of I
- II. H and K are married couples
- III. L is the paternal aunt of A

- a) Only I
- b) Only II and III
- c) Only II
- d) Only III
- e) All I, II and III

55. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) H
- b) I
- c) L

- d) M
- e) K

Directions (56-58): Study the following information carefully and answer the questions given below

Ajay starts walking from point I towards the south for 5km to reach point J and then he takes a left turn and walks for 14km to reach point K. From K, he takes a left turn and walks for 15km to reach point L. From L, he takes a consecutive right and left turn and walks for 10km and 9km to reach points M and N respectively.

Vijay starts walking from point S towards the east for 7km to reach point O. Then he takes a right turn and walks for 20km to reach point P. Then he turns west and walks for 12km to reach point Q. Then he takes a right turn and walks for 21km to reach point R. Then he takes a left turn and walks for 6km to reach point N.

56. What is the shortest distance between points M and I?

- a) 24km
- b) 25km
- c) 26km
- d) 27km
- e) 28km

57. What is the direction of point K with respect to point Q?

- a) North-east
- b) North-west
- c) South-east

- d) South-west
- e) Can't be determined.

58. Four of the following five points are alike in a certain way based on the directions with respect to point N in the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) J
- b) L
- c) K
- d) I
- e) S

59. How many such pairs of letters are in the word "QUARANTINE" each of which has as many letters between them in the word as there are in the English alphabetical series (Both forward and backward directions)?

- a) None
- b) One
- c) Two
- d) Three
- e) More than three

60. In the given number "9183524753926", the even positioned digits (from the right end) are dropped and the remaining digits are arranged in descending order from the left end, then what is the sum of digits which are third from the left end and second from the right end?

- a) 11
- b) 12

- c) 13
- d) 14
- e) 15

Directions (61-63): Study the following information and answer the given questions.

Six trucks - A, B, C, D, E and F have different weights. Truck A is heavier than truck E which is lighter than truck D. Truck F is heavier than truck D but lighter than truck B. Only two trucks are heavier than truck A. Truck B is heavier than truck A. Truck C is lighter than truck E. The weight of the second heaviest truck is 15 tons.

61) Which of the following truck is the fourth heaviest?

- a) Truck C
- b) Truck E
- c) Truck D
- d) Truck F
- e) None of these

62) Which of the following statements is/are true as per the given arrangement?

- a) The weight of truck D can be 20 tons
- b) Truck C is the lightest
- c) The weight of truck B can be 10 tons
- d) All are true
- e) None is true

63) If the weight of the second lightest truck is 8 tons and the sum of the weights of truck F and truck A is 27 tons, then what may be the weight of truck D?

- a) 10 tons
- b) 13 tons
- c) 14 tons
- d) 15 tons
- e) 7 tons

ANSWER WITH EXPLANATION

1. Answer: E

345 721 925 163 249
345 127 259 136 **249**

2. Answer: B

345 721 925 163 249
6+1=7

3. Answer: D

345 721 925 163 249
543 127 **529** 361 942
361+529=890

4. Answer: B

345 721 925 163 249
35 71 95 13 9

Direction (5-9):

5. Answer: C

6. Answer: E

7. Answer: C

8. Answer: B

9. Answer: B

Final arrangement

Days	Persons	Exams
Monday	V	Physics

Tuesday	X	Chemistry
Wednesday	T	Science
Thursday	W	Biology
Friday	S	Commerce
Saturday	U	English

We have,

- W attends the exam on one of the days after Wednesday.
- Only two persons attend between W and the one who attends Physics exam.

From the above condition, there are three possibilities

	Case-1		Case-2		Case-3	
Days	Pers ons	Exa ms	Pers ons	Exa ms	Pers ons	Exa ms
Monday		Phy sics				
Tuesday				Phy sics		
Wednesday						Phy sics
Thursday	W					
Friday			W			
Saturday					W	

ay						
----	--	--	--	--	--	--

Again we have,

- X attends immediately after the one who attends Physics exam.
- As many persons attend before X as after the one who attends Commerce exam.
- T attends two days before the one who attends Commerce exam.
- Only two persons attend between T and the one who attends English exam.

Here, Case 3 gets eliminated because we cannot place the one who attends commerce exam.

	Case-1		Case-2		Case-3	
Days	Pers ons	Exam s	Pers ons	Exam s	Pers ons	Exa ms
Monday		Physi cs				
Tuesday	X		T	Physi cs		
Wednesday	T		X			Phy sics
Thursday	W			Com merc e	X	
Friday		Com merc e	W	Englis h		
Saturday		Englis h			W	

Again we have,

- Neither U nor V attends Commerce exam.

- V attends two days before the one who attends Science exam.
- Both V and the one who attends Chemistry exam are attending the exam on consecutive days.

So, Case2 gets eliminated because we cannot place the one who attends chemistry exam, hence case 1 shows the final arrangement,

	Case-1		Case-2	
Days	Perso ns	Exams	Perso ns	Exams
Monday	V	Physics	V	
Tuesday	X	Chemistr y	T	Physics
Wednesday	T	Science	X	Science
Thursday	W	Biology	S	Commer ce
Friday	S	Commer ce	W	English
Saturday	U	English		

Directions (10-13)

10. Answer: A
11. Answer: D
12. Answer: E
13. Answer: B

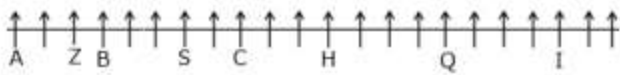
Cultural	by	Participate/Very	kl/pj
Program	dm	Enthusiastic	qr
In/College	tk/hz	Fantastic	ub

Students	rn	Dance	gk
And	xd		

Direction (14-18):

- 14. Answer: D
- 15. Answer: E
- 16. Answer: B
- 17. Answer: D
- 18. Answer: B

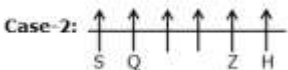
Final arrangement



We have,

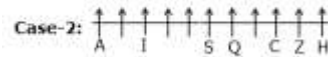
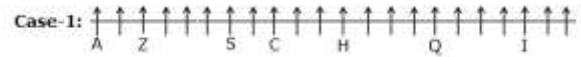
- Only three persons sit between Z and S, who sits fifth to the left of H.
- As many persons sit between Z and H as between S and Q, who sits to the right of S.

From the above condition, there are two possibilities



Again we have,

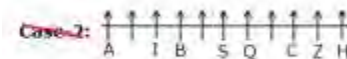
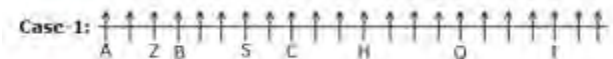
- I sits four places away from Q and third from one of the extreme ends.
- C sits between S and H but neither sits adjacent to S nor H.
- A sits eighth to the left of C.
- Z doesn't sit adjacent to A.



Again we have,

- B sits third to the right of A.
- Both I and B are not immediate neighbours.

From the above condition, Case 2 gets eliminated because I and B are immediate neighbours. Hence, case 1 shows the final arrangement.



19. Answer: C

DM8 & H4V % WK2A @L6 * 27PZ1OR
5YUJ9T3\$

Hence, option c is correct

20. Answer: A

DM8 & H4V % WK2A @L6 * 27PZ1OR
5YUJ9T3\$

Hence, option a is correct

21. Answer: E

DM8 & H4V % WK2A @L6 * 27PZ1OR
5YUJ9T3\$
DM8H4VWK2L627PZ1R5YJ9T3

22. Answer: B

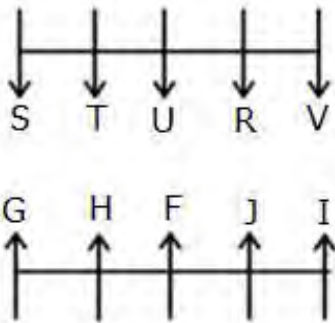
DM8 & H4V % WK2A @L6 * 27PZ1OR
5YUJ9T3\$

The number of elements to the right of the second symbol is 23, which is same as the number of elements to the left of 5

Direction (23-27):

- 23. Answer: C
- 24. Answer: D (All the persons sit in the middle of the rows, except option d)
- 25. Answer: C
- 26. Answer: A
- 27. Answer: C

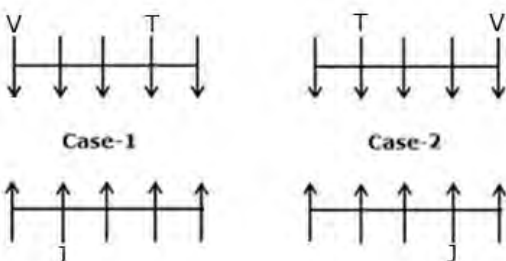
Final arrangement



We have,

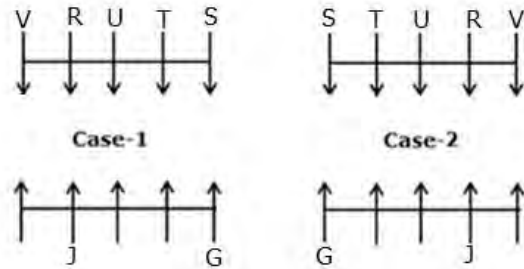
- Only two persons sit between T and V, who sits at one of the extreme ends of the row.
- Only one person sits between J and the one who faces T.

From the above condition, there are two possibilities



Again we have,

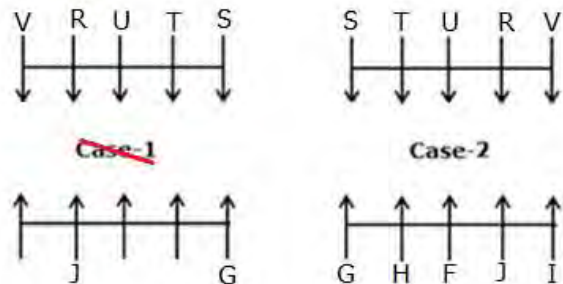
- G sits three places away from J.
- Only two persons sit between S and R, who doesn't face G.



Again we have,

- H sits immediate left of the one who faces U.
- I is not an immediate neighbour of H.

From the above condition, Case 1 gets eliminated because we cannot place H. Hence, case 2 shows the final arrangement.



28. Answer: A

Given series:

OHT ASG KJL PBQ NDE

Required series:

HOT AGS JKL BQP DEN

29. Answer: D

Given series:

OHT ASG KJL PBQ NDE

Required series: E-S

30. Answer: B

Given series:

OHT ASG KJL PBQ NDE

Required series:

TOH **GAS** LKJ QBP **END**

31. Answer: C

Given series:

OHT ASG KJL PBQ NDE

Required series:

MFR YQE IHJ NZO LBC

Directions (32-36):

32. Answer: B

33. Answer: C

34. Answer: D

35. Answer: C

36. Answer: A

Final arrangement

Crime	Comedy	Horror
I, L, P	H, O	J, N, K, M

We have,

- J watches the same genre movie with N but not a crime movie.
- L neither watches horror movie nor watches the same genre movie with N.

From the above condition, there are three possibilities.

	Crime	Comedy	Horror
Case-1	L	J, N	
Case-2		L	J, N
Case-3	L		J, N

Again we have,

- H watches the same genre movie only with O.
- Both P and N watch different genre movies.
- I neither watches comedy nor horror movie.

Here case 2 gets eliminated because we cannot place I.

	Crime	Comedy	Horror
Case-1	L, P, I	J, N	H, O
Case-2	H, O	L, P	J, N
Case-3	L, P, I	H, O	J, N

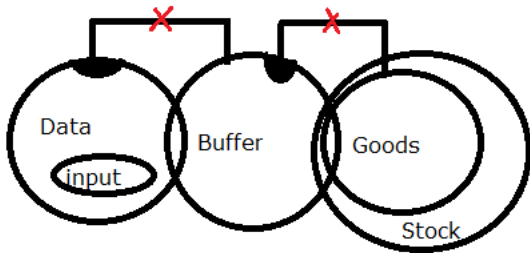
Again we have,

- Both K and M watch the same genre movie but not a comedy movie.

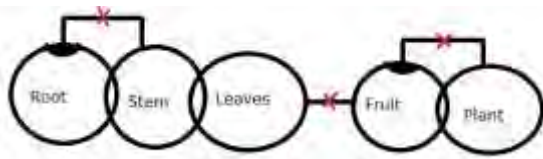
Here case 1 gets eliminated because we cannot place K and M, hence case 3 shows the final arrangement.

	Crime	Comedy	Horror
Case-1	L, P, I	J, N, K, M	H, O
Case-3	L, P, I	H, O	J, N, K, M

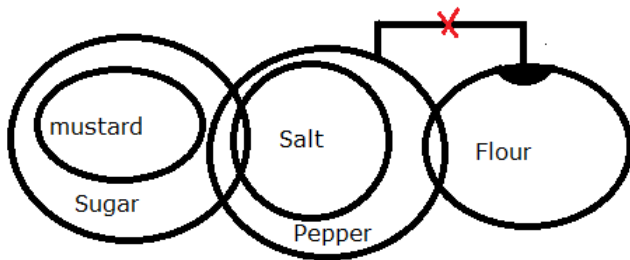
37. Answer: D



38. Answer: E



39. Answer: B



Direction (40-44):

40. Answer: C

41. Answer: C

42. Answer: A

43. Answer: B (The designation of I and L remain unchanged)

44. Answer: D

Final arrangement

Designation	Person	College
Managing director (MD)	M	VVH
Dean	I	BVC

Principal	K	AVC
HOD	H	FVC
Professor	L	BHS
Associate professor	J	SKC

We have,

- K is senior to the one who is HOD.
- Only two persons are designated between K and the one who works in SKC.
- H is two persons senior to the one who works in SKC.

From the above conditions, there are three possibilities

Designation	Case-1		Case-2		Case-3	
	Person	College	Person	College	Person	College
Managing director (MD)					K	
Dean			K		H	
Principal	K		H			
HOD	H					SKC
Professor				SKC		
Associate professor		SKC				

Again we have,

- The one who works in BHS is immediately junior to H.

- The number of persons senior to the one who works in BHS is one less than the number of persons junior to M.

Here case 2 gets eliminated because we cannot place M.

Designation	Case-1		Case-2		Case-3	
	Person	College	Person	College	Person	College
Managing director (MD)	M				K	
Dean			K		H	
Principal	K		H		M	BHS
HOD	H			BHS		SKC
Professor		BHS		SKC		
Associate professor		SKC				

Again we have,

- I works in BVC and is immediately senior to the one who works in AVC.
- L is junior to the one who works in VVH but senior to J, who doesn't work in AVC.

• Either M or K works in VVH.
Here case 3 gets eliminated because J works in AVC, hence case 1 shows the final arrangement

Designation	Case-1		Case-3	
	Person	College	Person	College
Managing director (MD)	M	VVH	K	
Dean	I	BVC	H	
Principal	K	AVC	M	BHS
HOD	H	FVC	L	SKC
Professor	L	BHS	I	BVC
Associate professor	J	SKC	J	AVC

45. Answer: A

$M \geq S = P < B \leq E$; $C < J > T \geq P > L$; $R \geq Q < J = A$

Conclusions:

I. $S < A$ ($A = J > T \geq P = S$) \rightarrow True

II. $R \geq M$ ($R \geq Q < J > T \geq P = S \leq M$) \rightarrow False

46. Answer: C

$D \geq W > T = U \geq Z$; $S > B \leq T = E$; $M > D = F < V$

Conclusions:

I. $V > E$ ($V > F = D \geq W > T = E$) \rightarrow True

II. $B < M$ ($M > D \geq W > T \geq B$) \rightarrow True

47. Answer: D

$Y = J \geq B < Z = T$; $B \geq I \geq H > E$; $I < K = Q$

Conclusions:

I. $Y > K$ ($Y = J \geq B \geq I < K$) \rightarrow False

II. $Q > E$ ($Q = K > I \geq H > E$) \rightarrow True

Directions (48-52):

48. Answer: D

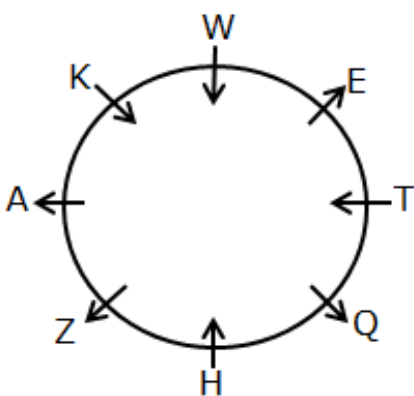
49. Answer: B (All are facing the centre of the table except option b)

50. Answer: A (Only Z)

51. Answer: E

52. Answer: C

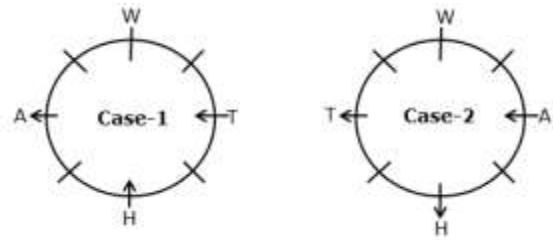
Final arrangement:



We have,

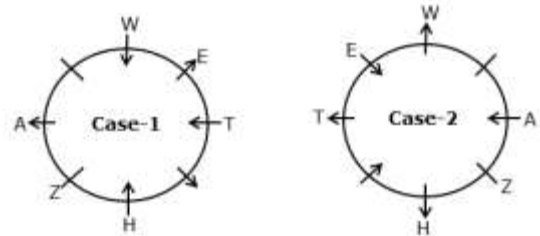
- H sits second to the left of both A and T and faces the same direction as T.
- W sits adjacent to neither T nor A.

From the above condition, there are two possibilities



Again we have,

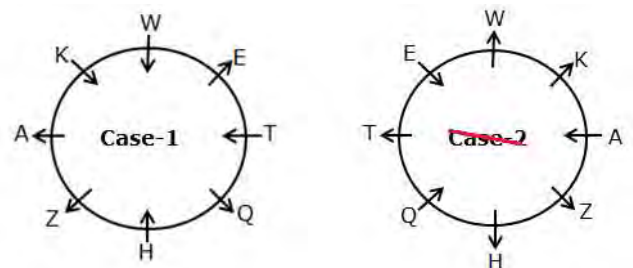
- E sits immediate left of W and is not an immediate neighbour of A.
- Only three persons sit between E and Z.



Again we have,

- The immediate neighbors of Q are facing the same direction.
- K faces the same direction as H.
- Z doesn't face the center.
- Both H and Z do not face the same direction.

Here Case 2 gets eliminated because H and Z face the same direction, hence case-1 shows the final arrangement

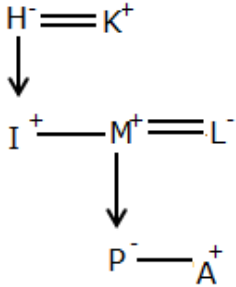


Direction (53-55):

53. Answer: D

54. Answer: C

55. Answer: B (All the persons are married couples except option b)

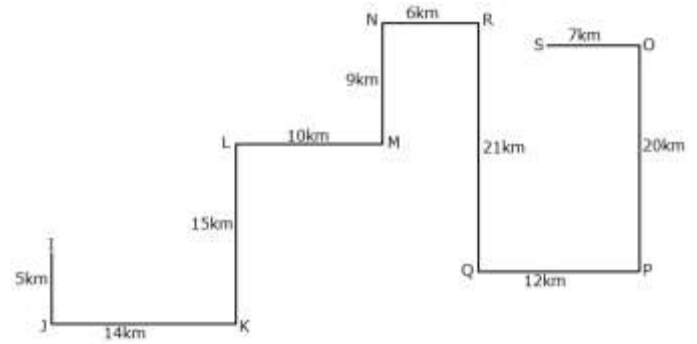


Directions (56-58):

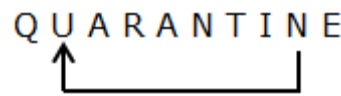
56. Answer: C

57. Answer: D

58. Answer: E



59. Answer: B



60. Answer: C

9183524753926 -> 9854596 -> 9986554

Directions (61-63):

61. Answer: C

62. Answer: B

63. Answer: A

B>F (15)>A>D>E>C

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RRB PO Prelims Sectional Test-1 (2023)

Directions (1-5): Study the following information carefully and answer the given questions.

Eight persons – L, M, N, O, P, Q, R and S are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. Not more than two adjacent persons are facing the same direction.

Only one person sits between M and S, who sits at one of the extreme ends. P sits third to the right of M. O sits immediate right of P, who faces the same direction as M. As many persons sit to the right of O as to the right of L, who faces south. Only three persons sit between R and N. Q sits third to the left of N and faces the same direction as R.

1. How many persons sit between Q and R?

- a) Three
- b) Four
- c) Five
- d) six
- e) No one

2. What is the position of L with respect to S?

- a) Immediate left
- b) Fourth to the left
- c) Third to the right
- d) Fifth to the right
- e) Second to the left

3. The number of persons sitting to the left of P is one more than the number of persons sitting to the left of ____.

- a) Q
- b) L
- c) O
- d) R
- e) N

4. ____ and ____ face opposite directions to each other.

- a) N, P
- b) M, L
- c) P, R
- d) P, L
- e) S, R

5. Who among the following person sits third to the right of M?

- a) S
- b) P
- c) N
- d) L
- e) R

6. If it is possible to make a meaningful word by using the second, fourth, sixth and seventh letters

from the left end of the word "SCHEDULING" using each letter only once, then what is the last letter of the word thus formed? If no such word is formed, mark the answer as "Y". If more than one word can be formed mark the answer as "X".

- a) E
- b) L
- c) Y
- d) X
- e) C

Directions(7-10): Study the following information carefully and answer the given questions.

In a certain code language,

"Study makes better life" is coded as "sur cub use ami"

"Guide people right choice" is coded as "bua ruf jam rot"

"Think better guide study" is coded as "jam use kru ami"

"Right study makes learn" is coded as "cub bua mis use"

(Note: All the given codes are three letter codes only)

7) What is the word for the code "ami" in the given code language?

- a) Makes
- b) Better
- c) Life
- d) Study
- e) Think

8) If the phrase "case choice shape" is coded as "sut ruf chi" then what may be the code for the phrase "people study best" in the given code language?

- a) red use rot
- b) red ami use
- c) rot use mis
- d) ami rot mis
- e) use mis bua

9) What is the phrase for the code "jam kru" in the given code language?

- a) Study think
- b) Guide learn
- c) Right choice
- d) Guide right
- e) Think guide

10) What will be the code for the word "right" in the given code language?

- a) jam
- b) cub
- c) bua
- d) use
- e) ruf

Direction (11-13): Study the following information carefully and answer the given questions. (Easy

P is the father of only L and J. O is the sister-in-law of L. K, who is the nephew of L and only son of O. Q, who is unmarried and is the brother-in-law of P. J is the son-in-law of M. I is the

grandmother of K and not married to M. L is the aunt of N.

11. If Z is the husband of M, then how is M related to K?

- a) Mother
- b) Grand-daughter
- c) Grand-mother
- d) Sister
- e) Can't be determined

12. How many male members are there in a family?

- a) Three
- b) Four
- c) Five
- d) Six
- e) Can't be determined

13. How is Q related to L?

- a) Brother
- b) Nephew
- c) Maternal uncle
- d) Paternal uncle
- e) None of these

Directions (14-17): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

14. Statements:

$Q > W \geq E < R$; $T < E = Y \geq U$

Conclusions:

- I. $Q > T$

II. $U \leq R$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

15. Statements:

$A \leq S = D > F$; $G > D \leq J = H$

Conclusions:

I. $A < H$

II. $H = A$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

16. Statements:

$D \leq V = B > J$; $P \geq I = V < O$

Conclusions:

I. $P \geq D$

II. $J < O$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

17. Statements:

$Z < X = C$; $V \geq X < B$; $M \geq B < N$

Conclusions:

- I. $N \geq Z$

II. C < M

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

Directions (18-22): Study the following information carefully and answer the given questions.

Six persons – S, T, U, V, W and X are working in a company at different designations such as Managing director (MD), Chief executive officer (CEO), Chief financial officer (CFO), HR, Marketing officer and sales executive. The designations are given in decreasing order such as the Managing director (MD) is the seniormost designation and sales executive is the junior most designation. Each person is from different city viz. Goa, Mumbai, Delhi, Patna, Shimla and Pune.

V is designated junior to the one who is HR. Only three persons are designated between V and the one who is from Delhi. W is immediately junior to the one who is from Delhi. As many persons senior to W as junior to the one who is from Patna. S is two persons senior to the one who is from Patna. Only two persons are designated between S and the one who is from Pune. Neither T nor U is from Pune. Only one person is designated between X and the one who is from Goa. Either W or U is from Mumbai. U is senior to T, who is not from Goa.

18. Who among the following person is from Shimla?

- a) T
- b) The one who is immediately junior to X
- c) S
- d) The one who is two persons senior to W
- e) X

19. How many persons are junior to the one who is from Mumbai?

- a) Two
- b) One
- c) Three
- d) Four
- e) More than four

20. Which of the following combination is true?

- a) T-Pune
- b) U-Delhi
- c) V-Patna
- d) S-Delhi
- e) W-Mumbai

21. The number of persons senior to W is one more than the number of persons junior to__.

- a) T
- b) V
- c) X
- d) S
- e) U

22. Which of the following statements is/are not true as per the given arrangement?

- I. U is working as a Chief Executive officer (CEO)
 - II. T is junior to the one who is from Goa
 - III. V is from Patna
- a) Only III
 - b) Only I and III
 - c) Only II and III
 - d) Only I
 - e) All I, II and III

Directions (23-25): Study the following information carefully and answer the given questions.

Person A starts walking from point R towards the north and walks for 8m to reach point S. Then he takes a left turn and walks for 6m to reach point T. Then he walks for 4m to reach point U after taking a right turn. Then he turns to his left and walks for 9m to reach point V.

Person B starts walking from point D towards the west and walks for 6m to reach point E. Then he turns to his left and walks for 7m to reach point F. Then, he takes a right turn and walks for 3m to reach point G. From point G, he takes a left turn and walks for 5m to reach point V.

23. What is the direction of point E with respect to point U?

- a) west
- b) South
- c) Northwest
- d) east
- e) Northeast

24. Four of the following five pairs of points are alike in a certain way based on the directions in the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) GD
- b) VE
- c) FD
- d) US
- e) VF

25. What is the shortest distance between points T and R?

- a) 5m
- b) 10m
- c) 13m
- d) 16m
- e) 3m

Direction (26-30): Study the following information carefully and answer the given questions.

Eight persons - A, B, C, D, E, F, G and H are living on different floors of a eight-storeyed building where the bottommost floor is numbered 1, the floor immediately above it is numbered 2 and so on.

C lives on an odd numbered floor and lives four floors above D. As many persons live above D as below B. Only four floors are between B and A. G lives immediately above A. H lives three floors above G. As many persons live between G and D as between H and E.

26. Who among the following person lives three floors above H?

- a) E
- b) The one who lives immediately above B
- c) A
- d) The one who lives on the topmost floor
- e) D

27. What is the sum of the floor number of D and H?

- a) 15
- b) 10
- c) 8
- d) 12
- e) 3

28. If all the persons are living in alphabetical order from the topmost floor, then how many persons are living on the same floor?

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

29. If B is related to E and C is related to H in a certain way, then in the same way who among the following is related to D?

- a) G
- b) A
- c) H
- d) E
- e) F

30. As many floors above H as below ___?

- a) D
- b) A
- c) G
- d) C
- e) E

31. If 1 is subtracted from the even digits and 1 is added to the odd digits of the number "546318267", then what is the sum of the digits which are third from the left end and second from the right end?

- a) 4
- b) 11
- c) 10
- d) 14
- e) 6

Directions (32-36): Study the following information carefully and answer the given questions.

Eight people – D, E, F, G, H, I, J and K attend the seminar on two different dates either 5th or 18th of four different months viz. April, May, July and September of the same year.

F attends the seminar on an even numbered date of the month having an even number of days. Only three people attend between F and D. J attends immediately after D. Only two people attend between J and E. As many people attend before E as after G. More than two people attend between G and I. K attends after I but before H, who doesn't attend in September.

32. Who among the following person attends the seminar on May 18?

- a) E
- b) I
- c) K
- d) D
- e) G

33. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) I
- b) H
- c) K
- d) J
- e) G

34. E attends the seminar in which of the following month and date?

- a) April 5
- b) July 18
- c) September 5
- d) May 5
- e) April 18

35. How many people attend the seminar between K and G?

- a) As many people attend before E
- b) Four
- c) As many people attend between I and J
- d) Two

e) No one

36. If E is related to I and F is related to G in a certain way, then in the same way who among the following person is related to J?

- a) H
- b) F
- c) K
- d) D
- e) E

Direction (37-40): Study the following information carefully and answer the given questions.

Uncertain number of persons are sitting in a linear row facing north with equal distance between adjacent persons.

Only nine persons sit between W and Q. E sits fourth to the left of W. Only three persons sit between E and R, who sits fifth from one of the extreme ends. As many persons sit between R and W as between W and O. P sits third to the right of O. U sits seventh to the left of P. More than five persons sit between U and Q.

37. If Z sits to the immediate right of U, then who among the following person sits fifth to the left of Z?

- a) The one who sits third to the left of R
- b) O
- c) P
- d) The one who sits fourth to the right of E
- e) Q

38. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) UO
- b) EW
- c) RE
- d) WU
- e) OP

39. Which of the following statements is/are not false as per the given arrangement?

- a) R sits at the extreme left end of the row
- b) U sits fourth to the right of O
- c) Only seven persons sit between R and W
- d) Both a and b
- e) Both b and c

40. If P sits at one of the extreme ends, then how many persons are sitting in the row?

- a) 21
- b) 22
- c) 23
- d) 24
- e) 25

ANSWER WITH EXPLANATION

Directions (1-5):

- 1) Answer: E
- 2) Answer: A
- 3) Answer: D
- 4) Answer: C
- 5) Answer: B

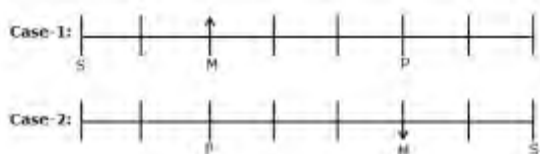
Final arrangement



We have,

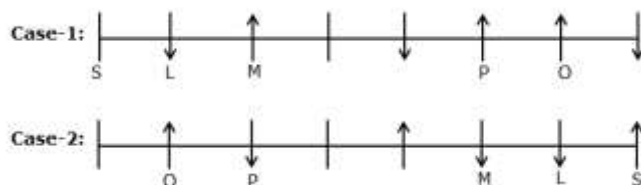
- Only one person sits between M and S, who sits at one of the extreme ends.
- P sits third to the right of M.

From the above conditions, there are two possibilities



Again, we have

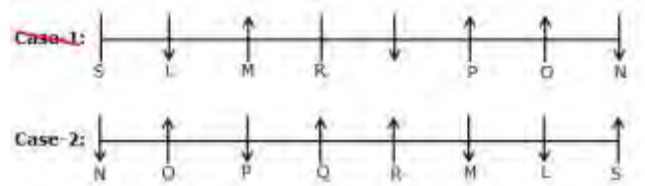
- O sits immediate right of P, who faces the same direction as M.
- As many persons sit to the right of O as to the right of L, who faces south.



Again, we have

- Only three persons sit between R and N.
- Q sits third to the left of N and faces the same direction as R.

After applying the above conditions, case-1 gets eliminated because there is no possibility to place Q, hence case-2 shows the final arrangement.



6. Answer: A

By using C, E, U and L only one meaningful word can be formed CLUE

Directions (7-10):

7) Answer: B

8) Answer: A

9) Answer: E

10) Answer: C

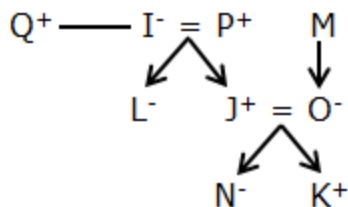
Word	code
Study	use
Makes	cub
Better	ami
Life	sur
Guide	jam
People/Choice	ruf/rot
Right	bua
Think	kru
Learn	mis

Directions: (11-13):

11. Answer: C

12. Answer: E

13. Answer: C



14. Answer: A

I. $Q > T \rightarrow Q > W \geq E > T \rightarrow$ True

II. $U \leq R \rightarrow U \leq Y = E < R \rightarrow$ False

15. Answer: D

I. $A < H \rightarrow A \leq S = D \leq J = H \rightarrow$ False

II. $H = A \rightarrow A \leq S = D \leq J = H \rightarrow$ False

So combining both conclusions, either conclusion I or II is true

16. Answer: C

I. $P \geq D \rightarrow D \leq V = I \leq P \rightarrow$ True

II. $J < O \rightarrow O > V = B > J \rightarrow$ True

17. Answer: B

I. $N \geq Z \rightarrow Z < X < B < N \rightarrow$ False

II. $C < M \rightarrow M \geq B > X = C \rightarrow$ True

Directions (18-22):

18) Answer: B

19) Answer: E

20) Answer: D

21) Answer: C

22) Answer: B

Final arrangement

Designation	Person	City
Managing director (MD)	U	Mumbai
Chief executive officer (CEO)	S	Delhi
Chief financial officer (CFO)	W	Goa
HR	T	Patna
Marketing officer	X	Pune
sales executive	V	Shimla

We have,

- V is junior to the one who is a HR.
- Only three persons are designated between V and the one who is from Delhi.

From the above conditions, there are two possibilities

	Case-1		Case-2	
Designation	Person	City	Person	City
Managing director (MD)		Delhi		
Chief executive officer (CEO)				Delhi
Chief financial officer (CFO)				
HR				
Marketing officer	V			
sales executive			V	

Again, we have

- W is immediately junior to the one who is from Delhi.
- As many persons senior to W as junior to the one who is from Patna.
- S is two persons senior to the one who is from Patna.
- Only two persons are designated between S and the one who is from Pune.

	Case-1		Case-2	
Designation	Person	City	Person	City
Managing director (MD)		Delhi		
Chief executive officer (CEO)				Delhi
Chief financial officer (CFO)				
HR				
Marketing officer	V			
sales executive			V	

Managing director (MD)		Delhi		
Chief executive officer (CEO)	W		S	Delhi
Chief financial officer (CFO)	S		W	
HR				Patna
Marketing officer	V	Patna		Pune
sales executive		Pune	V	

Again, we have

- Neither T nor U is from Pune.
- Only one person is designated between X and the one who is from Goa.
- Either W or U is from Mumbai.
- U is senior to T, who is not from Goa.

After applying the above conditions case-1 gets eliminated because T is from goa, hence case-2 shows the final arrangement.

	Case-1		Case-2	
Designation	Person	City	Person	City
Managing director (MD)	U	Delhi	U	Mumbai
Chief executive officer (CEO)	W	Mumbai	S	Delhi

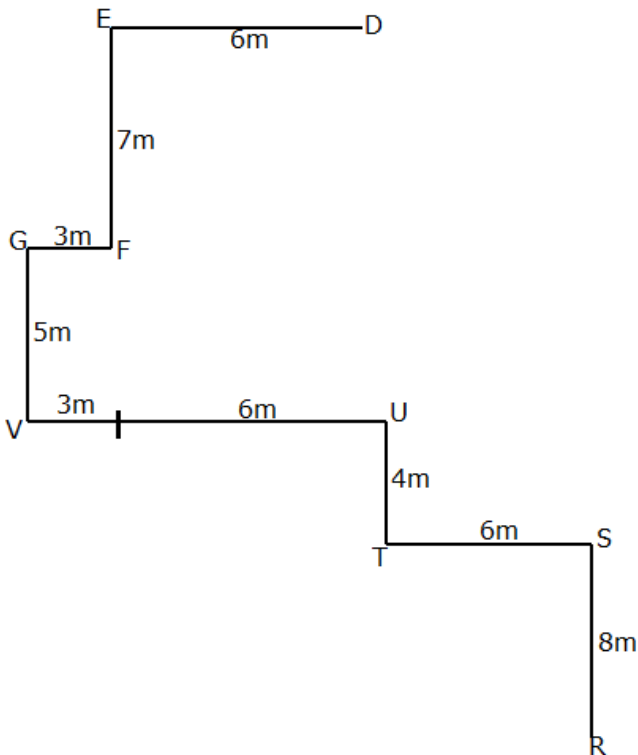
officer (CEO)				
Chief financial officer (CFO)	S	Shimla	W	Goa
HR	T	Goa	T	Patna
Marketing officer	V	Patna	X	Pune
sales executive	X	Pune	V	Shimla

Directions (23-25):

23) Answer: C

24) Answer: D (Second point is north-east of first point, except in option d)

25) Answer: B



Directions (26-30)

26. Answer: D

27. Answer: C

28. Answer: B

29. Answer: C

30. Answer: E

Final arrangement:

Floors	Persons
8	F
7	C
6	B
5	H
4	E
3	D
2	G
1	A

We have,

- C lives on an odd numbered floor and lives four floors above D.
- As many persons live above D as below B.

From the above conditions, we have two possibilities:

Floors	Case 1	Case 2
	Persons	Persons
8		B
7	C	
6	B	
5		C
4		
3	D	
2		
1		D

Again we have,

- Only four floors are between B and A.
- G lives immediately above A.

	Case 1	Case 2
Floors	Persons	Persons
8		B
7	C	
6	B	
5		C
4		G
3	D	A
2	G	
1	A	D

Again we have,

- H lives three floors above G.
- As many persons live between G and D as between H and E.

While applying the above conditions, case 2 gets eliminated, because can't able to place E. Thus, case 1 gives the final arrangement.

	Case 1	Case 2
Floors	Persons	Persons
8	F	B
7	C	H
6	B	
5	H	C
4	E	G
3	D	A
2	G	
1	A	D

31. Answer: c

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6 3 5 4 2 7 1 5 8

5+5=10

Directions (32-36):

32) Answer: D

33) Answer: B (All the people attend the seminar on an odd numbered date except option b)

34) Answer: E

35) Answer: C

36) Answer: A

Final arrangement

Month	Date	Persons
April	5	I
	18	E
May	5	K
	18	D
July	5	J
	18	H
September	5	G
	18	F

We have,

- F attends the seminar on an even numbered date of the month having an even number of days.
- Only three people attend between F and D.

From the above conditions, there are two possibilities

		Case-1	Case-2

Month	Date	Persons	Persons
April	5		
	18	F	
May	5		
	18		D
July	5		
	18	D	
September	5		
	18		F

Again, we have

- J attends immediately after D.
- Only two people attend between J and E.
- As many people attend before E as after G.

		Case-1	Case-2
Month	Date	Persons	Persons
April	5		
	18	F	E
May	5		
	18	E	D
July	5	G	J
	18	D	
September	5	J	G
	18		F

Again, we have

- More than two people attend between G and I.
- K attends after I but before H, who doesn't attend in September.

After applying the above conditions, case-1 gets eliminated because H attends in September, hence case-2 shows the final arrangement.

		Case-1	Case-2
Month	Date	Persons	Persons
April	5	I	I
	18	F	E
May	5	K	K
	18	E	D
July	5	G	J
	18	D	H
September	5	J	G
	18	H	F

Directions (37-40)

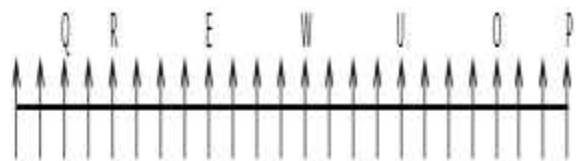
37. Answer: D

38. Answer: E (Only three persons sit between the given pair of persons, except in option (e))

39. Answer: C

40. Answer: D

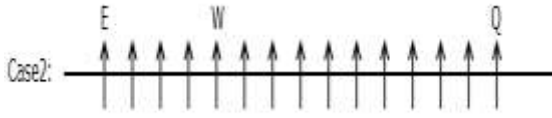
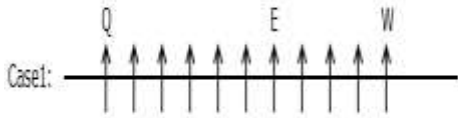
Final arrangement:



We have,

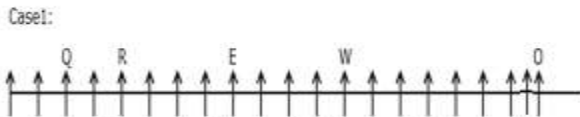
- Only nine persons sit between W and Q.
- E sits fourth to the left of W.

From the above conditions, we have two possibilities:



Again we have,

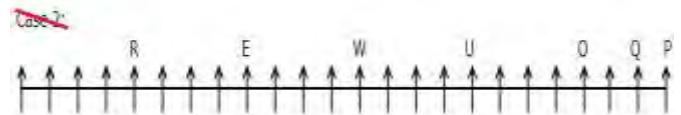
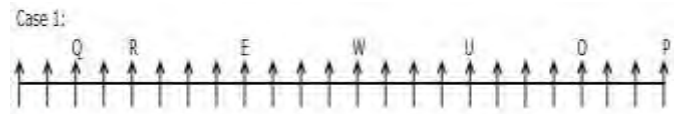
- Only three persons sit between E and R, who sits fifth from one of the extreme ends.
- As many persons sit between R and W as between W and O.



Again we have,

- P sits third to the right of O.
- U sits seventh to the left of P.
- More than five persons sit between U and Q.

While applying the above conditions, case 2 gets eliminated, because more than five persons should sit between U and Q. Thus, case 1 gives the final arrangement.



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RRB PO Prelims Bundle Day-1

Directions (1-5): Study the following information carefully and answer the questions given below.

Seven persons P, Q, R, S, T, U and V are going to the dance class on seven different days from Monday to Sunday of the same week. Each person eats different chocolates viz. Perk, Twix, Gems, Bounty, Snickers, Galaxy and Aero. All the information is not necessarily in the same order.

S goes to the dance class on one of the days after Thursday. The one who eats Gems goes immediately after S. Only three persons go between the one who eats gems and V. As many persons go after V as before R. The one who eats Twix goes three days before R. Only one person goes between the one who eats Twix and P, who eats Aero. The one who eats perk goes immediately after P. T goes two days after the one who eats perk. The one who eats bounty goes immediately after U. Q neither goes before U nor eats galaxy.

1. Who among the following person goes to the dance class on Wednesday?

- a) V
- b) P
- c) Q
- d) U
- e) T

2. How many persons go between S and the one who eats Snickers?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

3. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) PV
- b) SR
- c) UQ
- d) TS
- e) VU

4. R goes to the dance class on which of the following day?

- a) Monday
- b) Thursday
- c) Friday
- d) Sunday
- e) Saturday

5. Who among the following person goes two days before U?

- a) The one who eats Twix chocolates
- b) Q
- c) The one who goes immediately before V
- d) T
- e) The one who eats Gems

Directions (6-10): Study the following information carefully and answer the questions given below.

Fourteen persons are sitting in two parallel rows in such a way that there is an equal distance between adjacent persons. In row 1 A, B, C, D, E, F and G are seated and all of them are facing south. In row 2 M, N, O, P, Q, R and S are seated and all of them are facing north. Each person in row 1 faces exactly one person in row 2.

D sits fifth to the right of G. Only three persons sit between Q and the one who faces D. M sits second to the left of Q. O sits immediate left of M. Only one person sits between F and the one who faces O. B sits immediate left of F. The one who faces B sits fourth to the right of S. Only two persons sit between S and P. A faces one of the immediate neighbours of P. C sits fourth to the left of A. R doesn't sit at the end.

6. Who among the following person sits third to the left of R?

- a) The one who faces C
- b) S
- c) The one who sits second to the right of S
- d) P
- e) O

7. The number of persons sitting to the right of E is one less than the number of persons sitting to the left of ____.

- a) F
- b) D

- c) P
- d) B
- e) R

8. What is the position of Q with respect to O?

- a) Third to the right
- b) Fourth to the left
- c) Second to the left
- d) Immediate right
- e) None of these

9. How many persons sit between C and B?

- a) Four
- b) Two
- c) Three
- d) Five
- e) One

10. Which of the following statement(s) is/are true with respect to the final arrangement?

- I. E sits opposite to O
 - II. Only two persons sit to the left of Q
 - III. Both A and G are not immediate neighbours
- a) Only I
 - b) Only I and III
 - c) Only II
 - d) Only II and III
 - e) All I, II and III

Directions (11-15): Study the following information carefully and answer the questions given below.

Eight persons viz., K, L, M, N, O, P, Q and R are living in the four storey building, where the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on.

Note-I: Each floor has two type of flats viz., Flat-A and Flat-B, where Flat A is to the west of flat B.

Note-II: Flat B of floor 2 is immediately above Flat B of floor 1 and immediately below Flat B of floor 3 and so on. Similarly, Flat A of floor 2 is immediately above Flat A of floor 1 and immediately below Flat A of floor 3 and so on.

Note-III: The area of each flat is same.

Note-IV: Only two persons live on each floor and only one person lives in each flat.

N lives in flat B on an odd numbered floor. R lives immediately above N, both are living in different type of flats. As many floors below R as above O. No one lives to the east of O, who lives on the adjacent floor of M. Only one floor is between K and M, who lives on the same type of flat as R. P lives below K, both are living in different type of flats. L lives two floors above P. Q doesn't live on the topmost floor.

11. Who among the following person lives two floors below K?

- a) P
- b) The one who lives on the same floor as N
- c) L
- d) The one who lives immediately below the flat of N
- e) R

12. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Who among the following does not belong to the group?

- a) R
- b) Q
- c) L
- d) M
- e) K

13. In which direction L lives with respect to K?

- a) North
- b) South west
- c) West
- d) North east
- e) South east

14. Who among the following persons live on the same floor?

- a) L and O
- b) P and N
- c) K and M
- d) O and K
- e) R and K

15. Q lives on which of the following floor and flat?

- a) Floor 2, Flat A
- b) Floor 3, Flat B
- c) Floor 1, Flat, B
- d) Floor 2, Flat B
- e) Floor 3, Flat A

Directions (16-20): Study the following information carefully and answer the questions given below.

Eight persons viz., R, S, T, U, V, W, X, and Y are sitting around a circular table in such a way that four of them are facing the centre while four are facing away from the centre but not necessarily in the same order.

W sits second to the left of R, where both of them face different directions. Two persons sit between W and S, who doesn't sit adjacent to R. Y sits immediate right of S and second to the right of U, who faces towards the centre. T sits immediate left of Y. One person sits between T and X, who faces the same direction as R. V sits second to the right of X.

16. Who among the following person sits second to the left of V?

- a) T
- b) W
- c) The one who sits second to the right of R
- d) X
- e) The one who sits immediate right of Y

17. What is the position of X with respect to R?

- a) Third to the right
- b) Immediate left

- c) Second to the right
- d) Second to the left
- e) Fourth to the right

18. Who among the following person sits immediate right of W?

- a) The one who sits second to the right of S
- b) V
- c) U
- d) S
- e) The one who sits opposite to R

19. If Y is related to V and R is related to T in a certain way, then who among the following person is related to W?

- a) U
- b) X
- c) V
- d) Y
- e) None of these

20. How many persons sit between V and T?

- a) Two
- b) One
- c) Four
- d) Three
- e) No one

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Answer Key with Explanation

Directions (1-5):

1. Answer: D
2. Answer: A
3. Answer: C (No one goes between both the person except option c)
4. Answer: E
5. Answer: C

Final arrangement

Days	Persons	Chocolates
Monday	P	Aero
Tuesday	V	Perk
Wednesday	U	Twix
Thursday	T	Bounty
Friday	S	Galaxy
Saturday	R	Gems
Sunday	Q	Snickers

We have,

- S goes to the dance class on one of the days after Thursday.
- The one who eats Gems goes immediately after S.
- Only three persons go between the one who eats gems and V.

From the above conditions, there are two possibilities

Days	Case-1		Case-2	
	Persons	Chocolates	Persons	Chocolates
Monday				
Tuesday	V			
Wednesday			V	
Thursday				
Friday	S			
Saturday		Gems	S	
Sunday				Gems

Again we have,

- As many persons go after V as before R.
- The one who eats Twix goes three days before R.
- Only one person goes between the one who eats Twix and P, who eats Aero.
- The one who eats perk goes immediately after P.
- T goes two days after the one who eats perk.

Days	Case-1		Case-2	
	Persons	Chocolates	Persons	Chocolates
Monday	P	Aero		
Tuesday	V	Perk		Twix
Wednesday		Twix	V	
Thursday	T		P	Aero
Friday	S		R	Perk
Saturday	R	Gems	S	
Sunday			T	Gems

Again we have,

- The one who eats bounty goes immediately after U.
- Q neither goes before U nor eats galaxy.

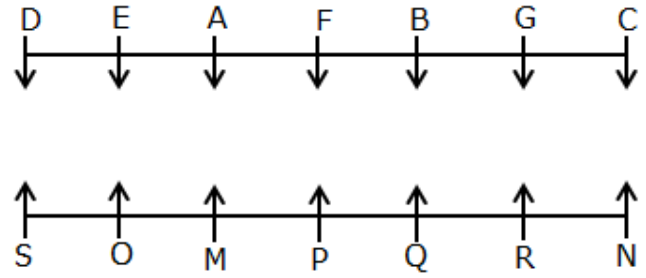
After applying the above conditions case-2 gets eliminated because Q goes before U, hence case-1 shows the final arrangement.

Days	Case-1		Case-2	
	Persons	Chocolates	Persons	Chocolates
Monday	P	Aero	Q	
Tuesday	V	Perk	U	Twix
Wednesday	U	Twix	V	Bounty
Thursday	T	Bounty	P	Aero
Friday	S	Galaxy	R	Perk
Saturday	R	Gems	S	
Sunday	Q	Snickers	T	Gems

Directions (6-10):

6. Answer: C
7. Answer: D
8. Answer: A
9. Answer: E
10. Answer: B

Final arrangement



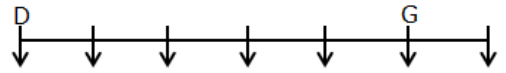
We have,

- D sits fifth to the right of G.
- Only three persons sit between Q and the one who faces D.

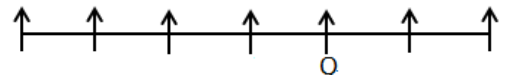
From the above conditions, there are two possibilities



Case-1:



Case-2:

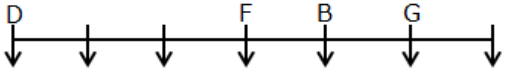
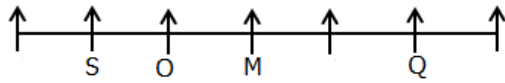


Again we have,

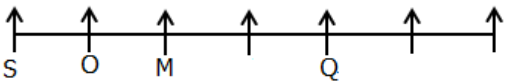
- M sits second to the left of Q.
- O sits immediate left of M.
- Only one person sits between F and the one who faces O.
- B sits immediate left of F.
- The one who faces B sits fourth to the right of S.



Case-1:



Case-2:



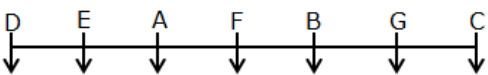
Again we have,

- Only two persons sit between S and P.
- A faces one of the immediate neighbours of P.
- C sits fourth to the left of A.
- R doesn't sit at the end.

After applying the above conditions case-1 gets eliminated because there is no possibility to place C, hence case-2 shows the final arrangement.



~~Case-1:~~



Case-2:



Directions (11-15):

11. Answer: D

12. Answer: C (All the persons are living on an even numbered floor except option c)

13. Answer: B

14. Answer: E

15. Answer: D

Final arrangement

Floor	Flat A	Flat B
4	R	K
3	L	N
2	M	Q
1	P	O

We have,

- N lives in flat B on an odd numbered floor.
- R lives immediately above N, both are living in different type of flats.

From the above conditions, there are two possibilities

Floor	Case-1		Case-2	
	Flat A	Flat B	Flat A	Flat B
4			R	
3				N
2	R			
1		N		

Again we have,

- As many floors below R as above O.
- No one lives to the east of O, who lives on the adjacent floor of M.
- Only one floor is between K and M, who lives on the same type of flat as R.

	Case-1		Case-2	
Floor/Flat	Flat A	Flat B	Flat A	Flat B
4	M		R	K
3		O		N
2	R	K	M	
1		N		O

Again we have,

- P lives below K, both are living in different type of flats.
- L lives two floors above P.
- Q doesn't live on the topmost floor.

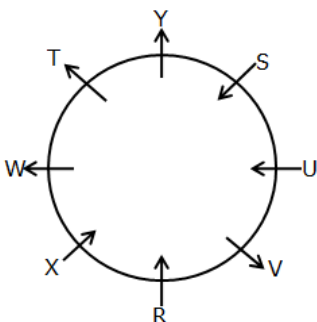
After applying the above conditions case-1 gets eliminated because Q lives on topmost floor, hence case-2 shows the final arrangement.

	Case-1		Case-2	
Floor/Flat	Flat A	Flat B	Flat A	Flat B
4	M	Q	R	K
3	L	O	L	N
2	R	K	M	Q
1	P	N	P	O

Directions (16-20):

16. Answer: E
17. Answer: B
18. Answer: A
19. Answer: C
20. Answer: D

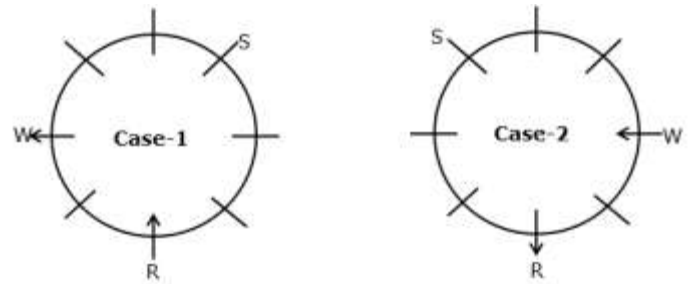
Final arrangement



We have,

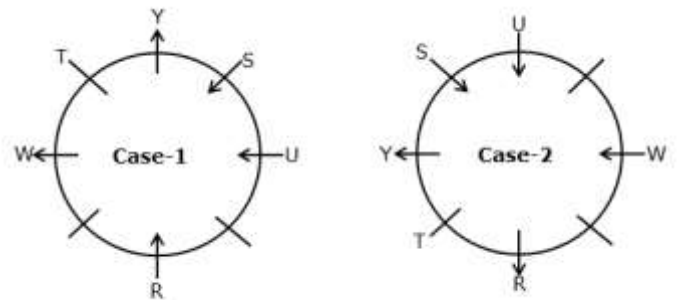
- W sits second to the left of R where both of them face different direction.
- Two persons sit between W and S, who doesn't sit adjacent to R.

From the above conditions, there are two possibilities



Again we have,

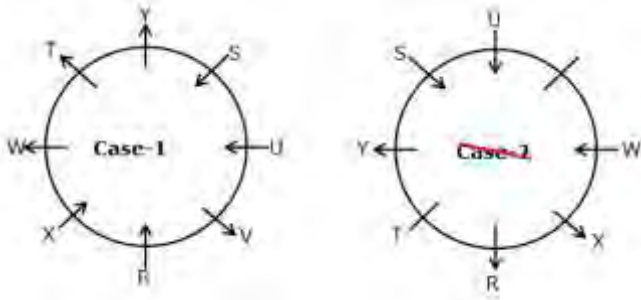
- Y sits immediate right of S and second to the right of U, who faces towards the centre.
- T sits immediate left of Y.



Again we have,

- One person sits between T and X, who faces the same direction as R.
- V sits second to the right of X.

After applying the above conditions case-2 gets eliminated because there is no possibility to place X, hence case-1 shows the final arrangement.



Score Booster

Directions (1-5): Study the following information carefully and answer the questions given below.

In a certain code language,

“Career goal employment well” is coded as “yu hj nt ay”

“Skill career level goal” is coded as “ad yu po nt”

“Develop well try best” is coded as “ay sv mj as”

“Career skill level best” is coded as “yu ad po sv”

(Note: All codes are two letters code only)

1. What is the code for the phrase “Employment level” in the given coded language?

- a) yu nt
- b) hj ad
- c) ay po
- d) hj po
- e) Cannot be determined

2. What is the word for the code “sv” in the given coded language?

- a) Career
- b) Skill
- c) Best
- d) Level
- e) Goal

3. If “Develop well” is coded as “mj ay”, then what is the code for the phrase “Try career” in the given coded language?

- a) ay mj
- b) as yu
- c) sv nt
- d) mj po
- e) hj as

4. What may be the code for the phrase “Skill try” in the given coded language?

- a) ad po
- b) mj yu
- c) nt po
- d) ay sv
- e) po as

5. What is the code for the word “Goal” in the given coded language?

- a) nt
- b) hj
- c) ad
- d) ay
- e) po

Directions (6-10): Study the following statements and then decide which of the given conclusions

logically follows from the given statements disregarding the commonly known facts.

6. Statements:

All symbols are numbers
Only a few numbers are letter
Few letters are PDF

Conclusions:

- I. All letters can be symbol
- II. Some numbers are not PDF
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

7. Statements:

All objects are shapes
Only a few shapes are design
No design is sketch

Conclusions:

- I. Some shapes are not sketch
- II. All objects can be design
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

8. Statements:

Some cards are plastic
At least some plastics are board
Only a few boards are slate

Conclusions:

- I. Some plastics are not slate
- II. All cards being board is a possibility
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

9. Statements:

Only a few data is news
All channels are news
Some channels are Frequency

Conclusions:

- I. Some news is frequency
- II. All data can be channel
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

10. Statements:

All DJ's are VJ
Only a few VJ's are disc
Some discs are CD

Conclusions:

- I. All CDs are DJ
- II. Some CDs are not DJ
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

Directions (11-13): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

11. Statements:

$W \leq O = K \geq Q$; $E \geq W < B$; $Q > X \geq A$

Conclusions:

I. $O > A$

II. $K = A$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

12. Statements:

$H \geq I \geq R = P$; $J \geq G = H$; $L < Y < P$

Conclusions:

I. $R < J$

II. $I \geq L$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

13. Statements:

$N = I \leq R < J$; $Z < R = K \geq D$; $P < D > B$

Conclusions:

I. $P < N$

II. $J > B$

- a) Only conclusion I is true

b) Only conclusion II is true

c) Both conclusions I and II are true

d) Either conclusion I or II is true

e) Neither conclusion I nor II is true

Directions (14-15): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

14. Statements:

$C > K > M \leq F = O$; $J < Z < K > I = M$

Conclusions:

I. $C > J$

II. $O > I$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

15. Statements:

$D = F \geq E \geq T$; $G = T \leq P$

Conclusions:

I. $T < F$

II. $G = F$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

Directions (16-18): Study the following information carefully and answer the questions given below.

Six cows viz. L, M, N, O, P and Q give different quantities of milk. Cow M gives more quantity of milk than O. N gives less than O and P. L gives more than P but less than Q. O gives more than Q. The cows which give the second highest and third lowest quantity of milk give 25 and 11 litres respectively.

16. What may be the quantity of milk given by cow Q?

- a) 18 litres
- b) 30 litres
- c) 28 litres
- d) 15 litres
- e) Either a or d

17. How many cows give more milk than cow P?

- a) One
- b) Four
- c) Two
- d) Three
- e) None

18. If the sum of the quantity of milk given by cows L and M is 41 litres and the difference between the quantity of milk given by cows O and P is 15 litres. What is the sum of the quantity of milk given by cows M and P?

- a) 50 litres
- b) 35 litres

- c) 20 litres
- d) 45 litres
- e) 40 litres

Directions (19-20): Study the following information carefully and answer the questions given below.

Seven persons A, B, C, D, E, F and G are paying different amounts of money for their hostel fees.

D pays more than B but less than G. Only three persons are paying less than D. At least two persons pay less than B. A pays less than C and F. E pays more than A but less than C. E doesn't pay less than G. The person who pays the second highest amount of money pays Rs. 9000.

19. Who among the following person pays second lowest amount?

- a) F
- b) C
- c) E
- d) G
- e) B

20. If the sum of the amount paid by E and D is Rs. 14,500, then what may be the amount paid by G?

- a) Rs. 10,000
- b) Rs. 4500
- c) Rs. 12,000
- d) Rs. 6500
- e) Rs. 2000

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Answer Key with Explanation

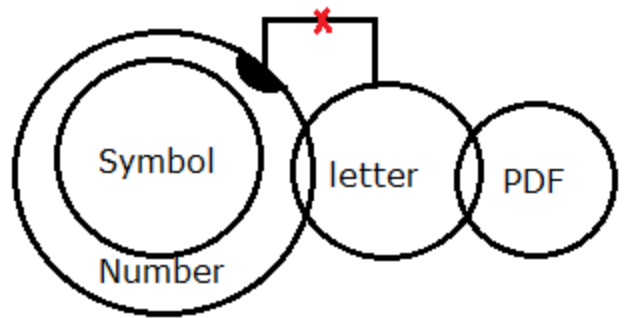
Directions (1-5):

1. Answer: E
2. Answer: C
3. Answer: B
4. Answer: E
5. Answer: A

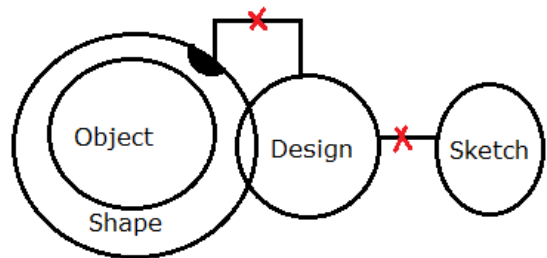
Words	Codes
Career	Yu
Goal	Nt
Employment	Hj
Well	Ay
Develop/try	mj/as
Skill/Level	ad/po
Best	Sv

Directions (6-10):

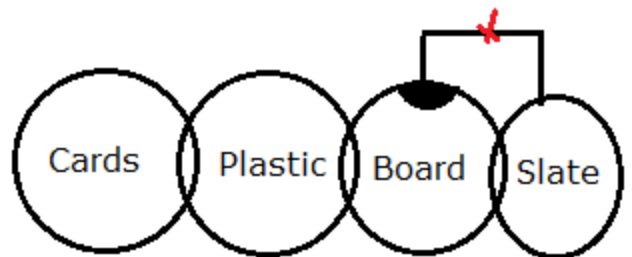
6. Answer: A



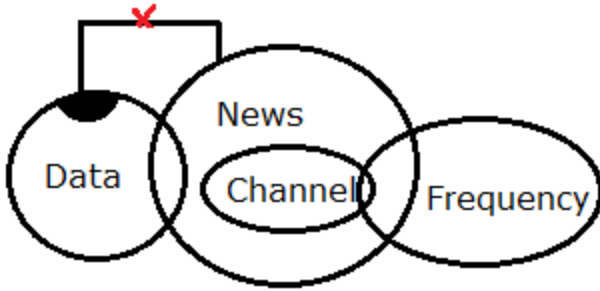
7. Answer: C



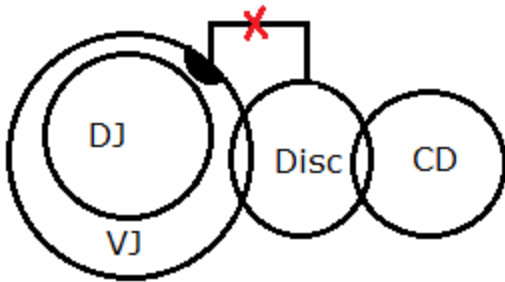
8. Answer: D



9. Answer: A



10. Answer: B



Directions (11-13):

11. Answer: A

$W \leq O = K \geq Q$; $E \geq W < B$; $Q > X \geq A$

Conclusions:

I. $O > A$ ($O = K \geq Q > X \geq A$) \rightarrow True

II. $K = A$ ($K \geq Q > X \geq A$) \rightarrow False

12. Answer: E

$H \geq I \geq R = P$; $J \geq G = H$; $L < Y < P$

Conclusions:

I. $R < J$ ($J \geq G = H \geq I \geq R$) \rightarrow False

II. $I \geq L$ ($I \geq R = P > Y > L$) \rightarrow False

13. Answer: B

$N = I \leq R < J$; $Z < R = K \geq D$; $P < D > B$

Conclusions:

I. $P < N$ ($N = I \leq R = K \geq D > P$) \rightarrow False

II. $J > B$ ($J > R = K \geq D > B$) \rightarrow True

14. Answer: A

$C > K > M \leq F = O$; $J < Z < K > I = M$

Conclusions:

I. $C > J$ ($C > K > Z > J$) \rightarrow True

II. $O > I$ ($O = F \geq M = I$) \rightarrow False

15. Answer: D

$D = F \geq E \geq T$; $G = T \leq P$

Conclusions:

I. $T < F$ ($F \geq E \geq T = D$) \rightarrow False

II. $G = F$ ($F \geq E \geq T = D$) \rightarrow False

By combining I and II we have, either I or II is true

Directions (16-18):

16. Answer: E

17. Answer: B

- Cow M gives more quantity of milk than O.
- N gives less than O and P.

$M > O > P > N$

Or

$M > P > O > N$

Or

$P > M > O > N$

- L gives more than P but less than Q.
- O gives more than Q.
- The cows which give the second highest and third lowest quantity of milk give 25 and 11 litres respectively.

$M > O$ (25) $> Q > L$ (11) $> P > N$

18. Answer: E

$M > O$ (25) $> Q > L$ (11) $> P > N$

The sum of the quantity of milk given by cows L and M is 41 litres $\rightarrow 11 + M = 41 \rightarrow M = 41 - 11 = 30$

M=30 litres

The difference between the quantity of milk given by cows O and P is 15 litres $\rightarrow 25 - P = 15 \rightarrow P = 10$

P=10 litres

Then the sum of the quantity of milk given by cows M and P $30 + 10 = 40$ litres

Directions (19-20):

19. Answer: A

- D pays more than B but less than G.
- Only three persons are paying less than D.
- At least two persons pay less than B.

$_ < _ < _ < D < B < _ < _$

- A pays less than C and F.
- E pays more than A but less than C.

- E doesn't pay less than G.
- The person who pays the second highest amount of money pay Rs. 9000.

$C > E (9000) > G > D > B > F > A$

20. Answer: D

$C > E (9000) > G > D > B > F > A$

The sum of the amount paid by E and D is Rs. 14,500 $\rightarrow 9000 + D = 14,500 \rightarrow D = 14,500 - 9000 = 5,500$

D=5,500

$C > E (9000) > G > D (5500) > B > F > A$

Then the possible amount paid by G is Rs. 6500.

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Directions (1-5): Study the following information carefully and answer the questions given below.

Seven persons viz., A, B, C, D, E, F and G are sitting around a circular table and facing towards centre but not necessarily in the same order.

D sits second to the left of G. Only two persons sit between A and G (either from left or right). B sits second to the left of A. Two persons sit

between B and F. C sits second to the right of F. E sits third to the right of C.

1. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) AF
- b) CG
- c) DB

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- d) BE
- e) DC

2. Which of the following statement is/are true with respect to the final arrangement?

- a) Only one person sits between E and D, when counted from the right of E
- b) F sits fourth to the right of C
- c) D sits immediate left of A
- d) Both A and B are immediate neighbours
- e) E sits second to the left of F

3. How many persons sit between F and G, when counted from the left of G?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

4. Who among the following person sits second to the left of D?

- a) The one who sits immediate right of C
- b) B
- c) F
- d) The one who sits second to the right of B
- e) None of these

5. If one of the neighbours of F is D, then who among the following person is another neighbour?

- a) G
- b) A

- c) E
- e) B
- e) None of these

Directions (6-10): Study the following information carefully and answer the questions given below.

Seven persons L, M, N, O, P, Q and R are living on different floors of the seven storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on.

P lives on an odd numbered floor but above fourth floor. Only two persons live between P and L. N lives immediately below L. As many persons live above N as below R. M lives three floors below R. More than two persons live between M and Q.

6. If all the persons are arranged in alphabetical order from bottom to top, then the position of how many persons remains unchanged?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

7. Who among the following person lives three floors above L?

- a) Q
- b) P
- c) N
- d) O
- e) M

8. On which of the following floor does Q live?

- a) Fourth floor
- b) Third floor
- c) Seventh floor
- d) First floor
- e) Sixth floor

9. If P is related to R and N is related to O in a certain way, then who among the following person is related to L?

- a) Q
- b) N
- c) M
- d) R
- e) None of these

10. How many persons live between N and R?

- a) As many persons live above O
- b) Three
- c) Two
- d) As many persons live below M
- e) No one

Directions (11-15): Study the following information carefully and answer the questions given below.

Six persons S, T, U, V, W and X bought the bike on two different dates either 7th or 26th of three different months viz. January, April and October of the same year but not necessarily in the same order.

V bought the bike in the month having 30 days.

Only two persons bought between V and S. As many persons bought after S as before W. Only three persons bought between W and T. X bought either immediately before or immediately after T. U doesn't buy on an odd numbered date.

11. X bought the bike in which of the following month and date?

- a) April 7
- b) October 26
- c) January 7
- d) April 26
- e) October 7

12. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) UV
- b) WS
- c) XT
- d) TS
- e) WU

13. How many persons bought the bike between S and U?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

14. As many persons bought the bike before U as after ____.

- a) W
- b) S
- c) V
- d) X
- e) T

15. Which of the following statement(s) is/are true with respect to the final arrangement?

- I. T bought the bike on April 7
- II. W bought immediately after U
- III. Only three persons bought between S and U

- a) Only I and II
- b) Only III
- c) Only I and III
- d) Only II
- e) All I, II and III

Directions (16-20): Study the following information carefully and answer the questions given below.

Ten persons are sitting in two parallel rows in such a way that there is an equal distance between adjacent persons. In row 1 G, H, I, J and K are seated and all of them are facing south. In row 2 V, W, X, Y and Z are seated and all of them are facing north. Each person in row 1 faces exactly one person in row 2.

X sits third to the right of Z. Only one person sits between I and the one who faces X. K sits immediate left of I. G sits second to the right of K. The one who faces G sits second to the left of Y.

Only two persons sit between Y and V, who doesn't face H.

16. What is the position of J with respect to the one who sits opposite to W?

- a) Immediate right
- b) Immediate left
- c) Second to the left
- d) Third to the left
- e) Second to the right

17. Who among the following person sits to the left of the one who sits immediate left of Y?

- a) Z
- b) W
- c) V
- d) Both a and c
- e) Both b and c

18. Who among the following person sits second to the left of I?

- a) The one who sits immediate left of K
- b) J
- c) G
- d) The one who sits opposite to Y
- e) None of these

19. Which among the following pair of persons sits at the extreme end?

- a) Z, G
- b) K, V
- c) J, X
- d) W, K
- e) I, Y

20. Who among the following person sits opposite to H?

a) V

- b) X
- c) Z
- d) W
- e) Y

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Answer Key with Explanation

Directions (1-5):

1. Answer: C (in the given option, second person sits immediate right of first person, except in option c)

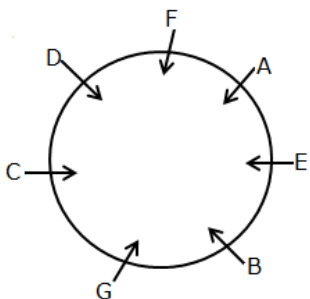
2. Answer: E

3. Answer: B

4. Answer: D

5. Answer: B

Final arrangement

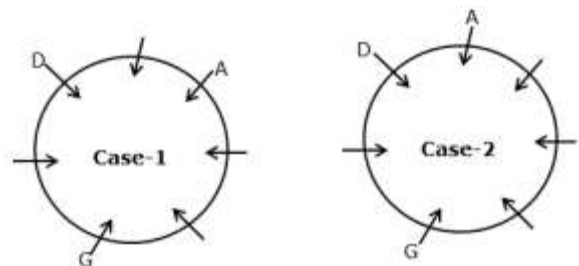


We have,

- D sits second to the left of G.

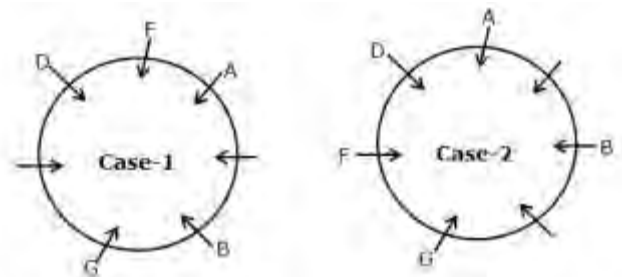
- Only two persons sit between A and G (either from left or right).

From the above conditions, there are two possibilities



Again we have,

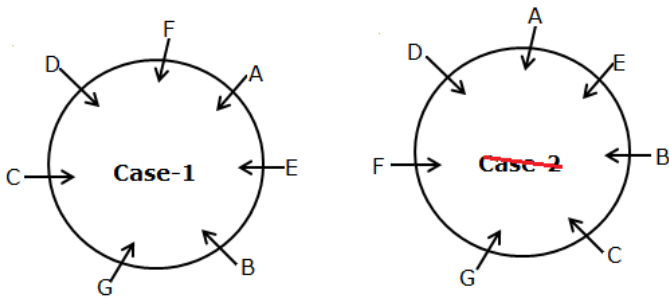
- B sits second to the left of A.
- Two persons sit between B and F.



Again we have,

- C sits second to the right of F.
- E sits third to the right of C.

After applying the above conditions case-2 gets eliminated because E sits second to the right of C, hence case-1 shows the final arrangement.



Directions (6-10):

6. Answer: C (Only M, N and Q)
7. Answer: B
8. Answer: E
9. Answer: A
10. Answer: D

Final arrangement

Floors	Persons
7	P
6	Q
5	R
4	L
3	N
2	M
1	O

We have,

- P lives on an odd numbered floor but above fourth floor.
- Only two persons live between P and L.

From the above conditions, there are two possibilities

	Case-1	Case-2
Floors	Persons	Persons
7		P
6		
5	P	
4		L
3		
2	L	
1		

Again we have,

- N lives immediately below L.
- As many persons live above N as below R.

	Case-1	Case-2
Floors	Persons	Persons
7	R	P
6		
5	P	R
4		L
3		N
2	L	
1	N	

Again we have,

- M lives three floors below R.
- More than two persons live between M and Q.

After applying the above conditions case-1 gets eliminated because there is no possibility to

place Q, hence case-2 shows the final arrangement.

	Case-1	Case-2
Floors	Persons	Persons
7	R	P
6		Q
5	P	R
4	M	L
3		N
2	L	M
1	N	O

Directions (11-15):

11. Answer: D
12. Answer: B (No one bought the bike between both the persons except in option b)
13. Answer: C
14. Answer: E
15. Answer: B

Final arrangement

Month	Date	Persons
January	7	W
	26	U
April	7	V
	26	X
October	7	T
	26	S

We have,

- V bought the bike in the month having 30 days.

- Only two persons bought between V and S.

From the above conditions, there are two possibilities

		Case-1	Case-2
Month	Date	Persons	Persons
January	7		S
	26		
April	7	V	
	26		V
October	7		
	26	S	

Again we have,

- As many persons bought after S as before W.
- Only three persons bought between W and T.

		Case-1	Case-2
Month	Date	Persons	Persons
January	7	W	S
	26		T
April	7	V	
	26		V
October	7	T	
	26	S	W

Again we have,

- X bought either immediately before or immediately after T.
- U doesn't buy on an odd numbered date.

After applying the above conditions case-2 gets eliminated because U bought the bike on an odd

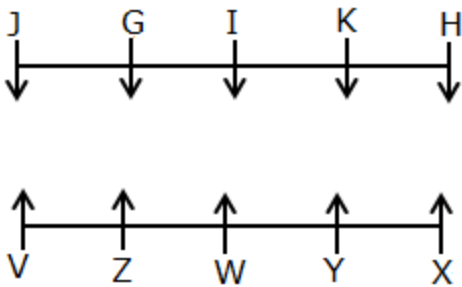
numbered date, hence case-1 shows the final arrangement.

		Case-1	Case-2
Month	Date	Persons	Persons
January	7	W	S
	26	U	T
April	7	V	X
	26	X	V
October	7	T	U
	26	S	W

Directions (16-20):

- 16. Answer: E
- 17. Answer: D
- 18. Answer: A
- 19. Answer: C
- 20. Answer: B

Final arrangement



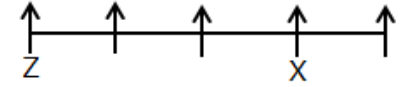
We have,

- X sits third to the right of Z.
- Only one person sits between I and the one who faces X.

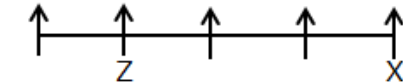
From the above conditions, there are two possibilities



Case-1:

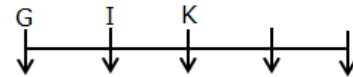


Case-2:

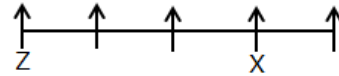


Again we have,

- K sits immediate left of I.
- G sits second to the right of K.



Case-1:



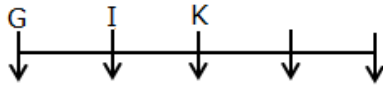
Case-2:



Again we have,

- The one who faces G sits second to the left of Y.
- Only two persons sit between Y and V, who doesn't face H.

After applying the above conditions case-1 gets eliminated because there is no possibility to place V, hence case-2 shows the final arrangement.



~~Case-1:~~



Case-2:



Score Booster

Directions (1-3): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

1. Statements:

$$W=P < Y \leq T \leq S > L = G < V$$

Conclusions:

I. $V > P$

II. $W < S$

- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

2. Statements:

$$E > Y \leq I = O < B \geq W = X \geq A$$

Conclusions:

I. $A \leq B$

II. $E > W$

- a) Only conclusion II is true
- b) Either conclusion I or II is true

- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

3. Statements:

$$O > L = U \leq D < M < H \leq R$$

Conclusions:

I. $R \geq D$

II. $O > H$

- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

Directions (4-5): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

4. Statements:

$$R \geq T = L < C; L \leq E < X = W$$

Conclusions:

I. $X > T$

II. $R > W$

- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

5. Statements:

$Q > H \geq P < I$; $R \leq D = P$

Conclusions:

I. $R < I$

II. $Q > R$

- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

Directions (6-8): Study the following information carefully and answer the questions given below.

Point A is 11m west of point Q and 6m west of point H. Point B is 4m north of point H and 8m west of point V. Point F is 8m south of point V. Point U is 4m west of point F.

6. Four of the following five are alike in a certain way based on the directions of the points in the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) VU
- b) BA
- c) QU

d) VH

e) BF

7. If point W is 1m west of point Q, then the distance between points W and H is equal to the distance between which of the following points?

- a) QH
- b) BV
- c) AF
- d) UF
- e) BQ

8. What is the direction of point U with respect to point V?

- a) North-east
- b) South-west
- c) West
- d) North-west
- e) North

Directions (9-10): Study the following information carefully and answer the questions given below.

A Person drives the car from the house towards the north of 7km to reach point G, then he turns to his right and drives for 5km to reach point J. From point J he again turns to his right and drives for 3km to reach the hospital.

9. If the school is 4km south of the hospital, then how far is his house from school and in which direction?

- a) 3km, North
- b) 5km, West
- c) 7km, East
- d) 4km, South

e) None of these

10. What is the shortest distance between Point G and hospital?

- a) 10km
- b) $\sqrt{31}$ Km
- c) $5\sqrt{2}$ Km
- d) $\sqrt{34}$ Km
- e) 13km

Directions (11-15): Study the following information carefully and answer the questions given below.

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U

11. How many such numbers are there in the given series each of which is immediately preceded by a consonant and immediately followed by a symbol?

- a) Four
- b) One
- c) Three
- d) Two
- e) None

12. Which of the following element is seventh to the right of the twentieth element from the right end in the given series?

- a) N
- b) *
- c) A
- d) >
- e) 8

13. If all the even numbers and symbols are dropped from the given series, then which of the following element is sixteenth from the left end?

- a) H
- b) 7
- c) K
- d) L
- e) 3

14. How many such numerals (as per the numerical order) are there between the third number from the right end and fourth number from the left end in the given series?

- a) Seven
- b) Four
- c) Eight
- d) Two
- e) Six

15. Which of the following element is exactly between "L" and "8" in the given series?

- a) Z
- b) %
- c) G
- d) S
- e) 4

16. If all the vowels in the word "HAILSTORM" are replaced by the immediate next letter and all the consonants are replaced by the immediate previous letter as per the alphabetical series,

then which of the following letter is repeated more than once?

- a) R
- b) S
- c) P
- d) L
- e) None

17. How many such pairs of digits are there in the number "35478614" each of which has as many digits between them as there are in the number series (both forward and backward directions)?

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

18. Find the odd one.

- a) FBD
- b) LHJ
- c) UZT

- d) VRT
- e) QMO

19. If in the number "5379542186", the digits at the odd position (from the left end) are dropped, then which of the following digit is third from the right end?

- a) 1
- b) 4
- c) 3
- d) 6
- e) 9

20. If all the letters of the word "SURVEYOR" are arranged in alphabetical order from the left end, then which of the following letter remain unchanged in its original position?

- a) V
- b) S
- c) O
- d) R
- e) Both b and d

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Answer Key with Explanation

1. Answer: A

$W=P<Y\leq T\leq S>L=G<V$

Conclusions:

- I. $V>P$ ($V>G=L<S\geq T\geq Y>P$) ->False
- II. $W<S$ ($S\geq T\geq Y>P=W$) ->True

2. Answer: D

$E>Y\leq I=O<B\geq W=X\geq A$

Conclusions:

- I. $A\leq B$ ($B\geq W=X\geq A$) ->True
- II. $E>W$ ($E>Y\leq I=O<B\geq W$) ->False

3. Answer: E

$O>L=U\leq D<M<H\leq R$

Conclusions:

- I. $R\geq D$ ($R\geq H>M>D\geq U$) ->False
- II. $O>H$ ($O>L=U\leq D<M<H$) ->False

4. Answer: D

$R\geq T=L<C$; $L\leq E<X=W$

Conclusions:

- I. $X>T$ ($X>E\geq L=T$) ->True
- II. $R>W$ ($R\geq T=L\leq E<X=W$) ->False

5. Answer: C

$Q>H\geq P=I$; $R\leq D=P$

Conclusions:

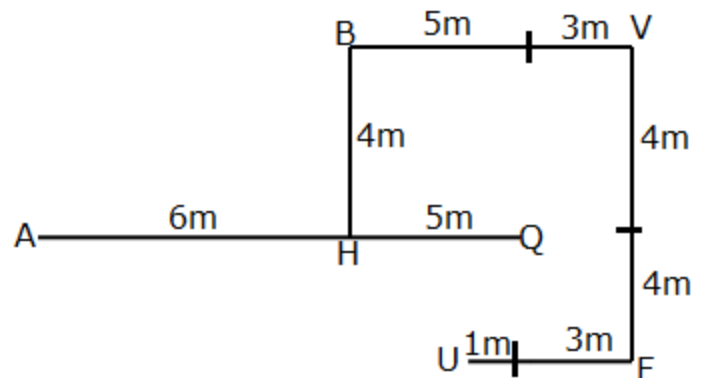
- I. $R<I$ ($I>P=D\geq R$) ->True
- II. $Q>R$ ($Q>H\geq P=D\geq R$) ->True

Directions (6-8):

6. Answer: E (First point is to the northeast of second point, except in option e)

7. Answer: D

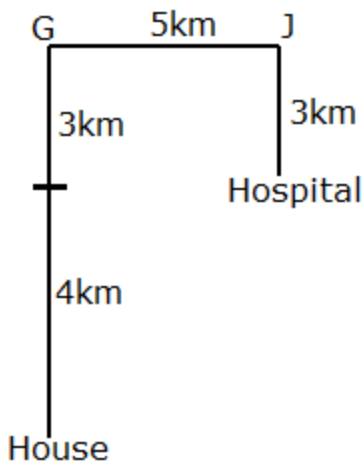
8. Answer: B



Directions (9-10):

9. Answer: B

10. Answer: D



11. Answer: C

Given series:

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U

12. Answer: E

Given series:

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U

Twentieth element from the right end is Z and then seventh to the right of Z is 8

13. Answer: B

Given series:

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U
5 T E 1 B L Q 3 Z G J S N A H 7 K 9 D Y U

14. Answer: D

Given series:

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U

Third number from the right end is 7 and fourth number from the left end is 4

5 and 6 are there between 4 and 7.

15. Answer: C

Given series:

5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U
5 T E 1 & B L % Q 3 4 Z G J 2 # S N 8 * A H 7 K
9 > 6 D Y + U

Element which is exactly between L and 8 is G

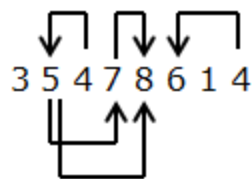
16. Answer: E

Given word:

H A I L S T O R M
G B J K R S P Q L

No letter is repeated more than once after rearrangement.

17. Answer: D



18. Answer: C

a) FBD -> F EDC B C D

b) LHJ -> L KJI H I J

d) VRT -> V UTS R S T

e) QMP -> Q PON M N O

This rule is not followed in option c

19. Answer: B

Given number:

5 3 7 9 5 4 2 1 8 6

3 9 4 1 6

20. Answer: D

SURVEYOR

EORRSUVY

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Directions (1-5): Study the following information carefully and answer the questions given below.

Five persons - D, E, F, G and H are living on different floors of the five-storey building where the lowermost floor is numbered 1 and the floor immediately above it is numbered 2 and so on.

Each person likes different dessert items viz. Cake, Candy, Muffin, Brownies and Puddings. All the information is not necessarily in the same order.

Only two persons live between F and the one who likes puddings. F lives immediately below the one who likes cake. Only one person lives between H and the one who likes cake. The one who likes Muffin lives three floors below H. As many persons live above the one who likes muffin as below G. The one who likes candy lives immediately above D. E doesn't like brownies.

1. Who among the following person lives two floors above the one who likes candy?

- a) F
- b) E
- c) H
- d) G

e) D

2. Which of the following statements is/are not true based on the given information?

- I. The one who likes muffin lives on an even numbered floor
- II. The one who likes candy lives immediately below D
- III. G likes brownie

- a) Only I
- b) Only II and III
- c) Only I and II
- d) Only II
- e) All I, II and III

3. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) The one who likes puddings
- b) G
- c) The one who likes muffin
- d) E
- e) The one who likes brownies

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4. If all the persons are living in alphabetical order from the top-most floor, then how many persons remain unchanged in their position?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

5. As many persons live between F and the one who likes puddings as between ___ and ___.

- a) G and H
- b) D and G
- c) F and D
- d) H and E
- e) E and F

Directions (6-10): Study the following information carefully and answer the questions given below.

Eight persons - P, Q, R, S, T, U, V and W are sitting around a square table in such a way that four of them are sitting at the corners and facing away from the centre while four of them are sitting in the middle of the sides and facing the centre.

Two persons sit between T and P, who doesn't sit in the middle of the sides of the table. V sits immediate right of P. S sits third to the right of V.

Only three persons sit between S and Q. As many persons sit between Q and T as between R and W, who is an immediate neighbour of S. U doesn't sit opposite to W.

6. What is the position of U with respect to the one who is facing W?

- a) Immediate right
- b) Second to the left
- c) Third to the right
- d) Immediate left
- e) Second to the right

7. How many persons sit between R and S, when counted from the right of S?

- a) Five
- b) Three
- c) Four
- d) Two
- e) One

8. Who among the following person sits opposite to T?

- a) The one who sits immediate right of P
- b) R
- c) The one who sits second to the left of W
- d) Q
- e) None of these

9. Which of the following pair of persons sit immediate right of each other?

- a) T and R
- b) S and U
- c) V and Q
- d) R and P
- e) W and S

10. If all the persons are made to sit in alphabetical order from P in a clockwise direction, then the position of how many persons remain unchanged (excluding P)?

- a) One
- b) Three
- c) Four
- d) No one
- e) Two

Directions (11-15): Study the following information carefully and answer the questions given below.

Nine persons – L, M, N, O, P, Q, R, S and T joined in three different courses viz. Java, Dot net and Python. Atleast two persons but not more than four persons joined the same course. N joined in Java course, but not joined the same course with T. S neither joined the same course with T nor joined in Python. Both L and Q joined the same course but not in Dot net. Q doesn't join the same course with N. O neither joined in Java nor joined in python. P joined the same course with O but not joined the same course with S. M joined the same course with P. R neither joined the same course with L nor joined in Java.

11. Who among the following person joined the same course along with T?

- a) O
- b) P
- c) M
- d) L

e) R

12. How many persons joined in the Dot net course?

- a) Four
- b) Three
- c) Two
- d) One
- e) Cannot be determined

13. If P is related to M and N is related to S in a certain way, then in the same way who among the following person is related to Q?

- a) S
- b) T
- c) O
- d) R
- e) M

14. Which of the following statements is/are true based on the given information?

- a) R and O joined different courses
- b) S joined in Java
- c) Both L and T joined the same course
- d) Both a and c
- e) Both b and c

15. Which of the following combination is true?

- a) S-Python
- b) O-Java
- c) R-Dot net
- d) L-Java
- e) Q-Dot net

Directions (16-20): Study the following information carefully and answer the questions given below. Easy to moderate

Eight persons - D, E, F, G, H, I, J and K are sitting in a linear row in such a way that some of them are facing north while some of them are facing south. Not more than two adjacent persons are facing the same direction.

D sits second from one of the extreme ends of the row. E, who faces the south and sits second to the right of D. As many persons sit to the right of E as to the left of J. The immediate neighbours of J are facing the opposite direction to each other. Only two persons sit between J and H. F sits fourth to the left of I, where both of them face the same direction. G sits second to the left of F.

16. Who among the following person sits exactly between H and E?

- a) G
- b) F
- c) K
- d) J
- e) D

17. How many persons sit between G and J?

- a) Three
- b) Four
- c) Five
- d) Two

e) No one

18. As many persons sit between E and H as between K and ____.

- a) The one who sits second to the right of I
- b) F
- c) H
- d) J
- e) The one who sits immediate left of G

19. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) I
- b) H
- c) K
- d) D
- e) F

20. Which of the following statements is/are true based on the given information?

- I. F sits third to the right of K
- II. Only two persons sit between G and E
- III. Both H and F are not immediate neighbours

- a) Only I
- b) Only I and III
- c) Only II
- d) Only II and III
- e) All I, II and III

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Answer Key with Explanation

Directions (1-5):

1. Answer: D
2. Answer: C
3. Answer: A (In the given options, all the persons are living on an odd numbered floors except in option a)
4. Answer: E
5. Answer: B

Final arrangement

Floor	Persons	Dessert
5	G	Brownies
4	H	Puddings
3	E	Candy
2	D	Cake
1	F	Muffin

We have,

- Only two persons live between F and the one who likes puddings.
- F lives immediately below the one who likes cake.

From the above conditions, there are three possibilities

	Case-1		Case-2		Case-3	
Floor	Persons	Dessert	Persons	Dessert	Persons	Dessert
5		Cake		Puddings		
4	F					Puddings
3				Cake		
2			F			Cake
1		Puddings			F	

Again, we have

- Only one person lives between H and the one who likes cake.
- The one who likes Muffin lives three floors below H.
- As many persons live above the one who likes muffin as below G.

After applying the above conditions case-1 gets eliminated because there is no possibility to place the one who likes muffin

	Case-1		Case-2		Case-3	
Floor	Persons	Dessert	Persons	Dessert	Persons	Dessert
5		Cake	H	Puddings	G	
4	F		G		H	Puddings
3	H			Cake		
2			F	Muffin		Cake
1		Pudding			F	Muffin

Again, we have

- The one who likes candy lives immediately above D.
- E doesn't like brownies.

After applying the above conditions case-2 gets eliminated because E likes brownies, hence case-1 shows the final arrangement.

	Case-2		Case-3	
Floor	Persons	Dessert	Persons	Dessert
5	H	Puddings	G	Brownies
4	G	Candy	H	Puddings
3	D	Cake	E	Candy
2	F	Muffin	D	Cake
1	E	Brownies	F	Muffin

Directions (6-10):

6. Answer: E

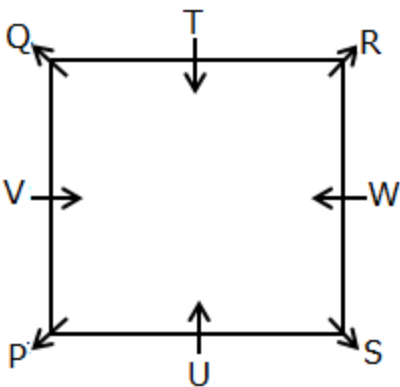
7. Answer: A

8. Answer: C

9. Answer: B

10. Answer: D

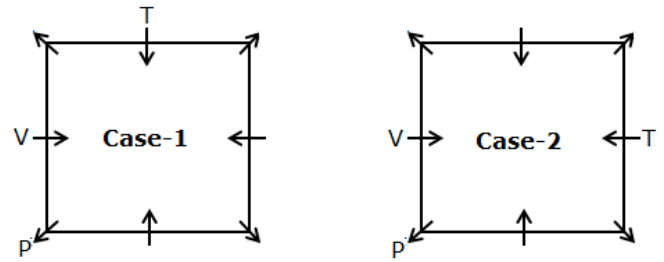
Final arrangement



We have,

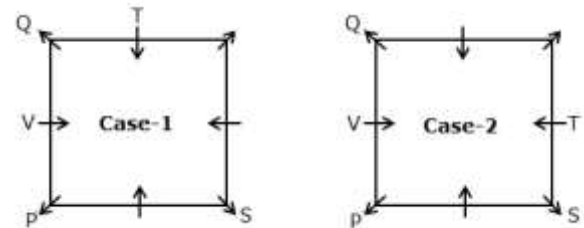
- Two persons sit between T and P, who doesn't sit in the middle of the sides of the table.
- V sits immediate right of P.

From the above conditions, there are two possibilities



Again, we have

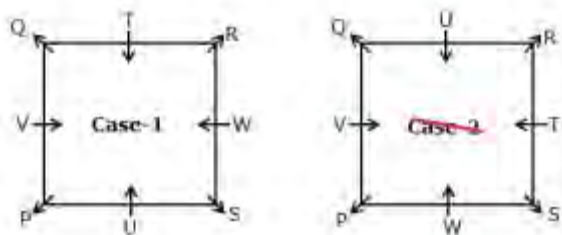
- S sits third to the right of V.
- Only three persons sit between S and Q.



Again, we have

- As many persons sit between Q and T as between R and W, who is an immediate neighbour of S.
- U doesn't sit opposite to W.

After applying the above conditions case-2 gets eliminated because U sits opposite to W, hence case-1 shows the final arrangement.



Directions (11-15):

11. Answer: D

12. Answer: A

13. Answer: B

14. Answer: E

15. Answer: C

Final arrangement

Course	Java	Dot net	Python
Persons	N, S	O, P, M, R	T, L, Q

We have,

- N joined in Java course, but not joined the same course with T.
- S neither joined the same course with T nor joined in Python.

From the above conditions, there are three possibilities

Course	Java	Dot net	Python
Case-1	N, S	T	
Case-2	N	S	T
Case-3	N, S		T

Again, we have

- Both L and Q joined the same course but not in Dot net.
- Q doesn't join the same course with N.
- O neither joined in Java nor joined in python.
- P joined the same course with O but not joined the same course with S.

After applying the above conditions case-2 gets eliminated because P joined with S.

Course	Java	Dot net	Python
Case-1	N, S	T, O, P	L, Q
Case-2	N	S, O, P	T, L, Q
Case-3	N, S	O, P	T, L, Q

Again, we have

- M joined the same course with P.
- R neither joined the same course with L nor joined in Java.

After applying the above conditions case-1 gets eliminated because five persons joined in the dot

net course, hence case-3 shows the final arrangement.

Course	Java	Dot net	Python
Case-1	N, S	T, O, P, M, R	L, Q
Case-3	N, S	O, P, M, R	T, L, Q

Directions (16-20):

16. Answer: C

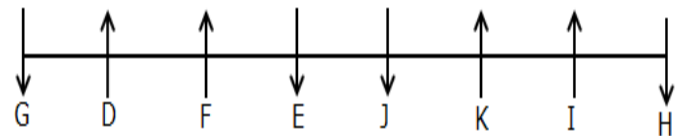
17. Answer: A

18. Answer: E

19. Answer: B (All of them are facing north, except option b)

20. Answer: D

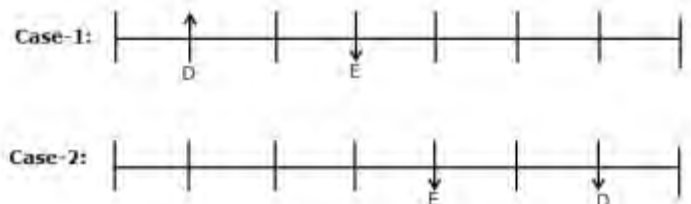
Final arrangement



We have,

- D sits second from one of the extreme ends of the row.
- E, who faces the south and sits second to the right of D.

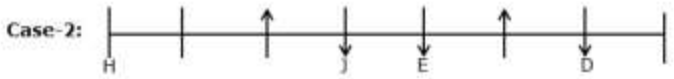
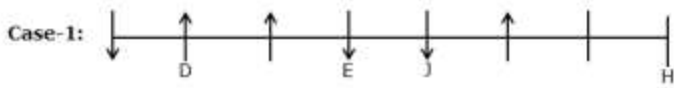
From the above conditions, there are two possibilities



Again, we have

- As many persons sit to the right of E as to the left of J.

- The immediate neighbours of J are facing the opposite direction to each other.
- Only two persons sit between J and H.

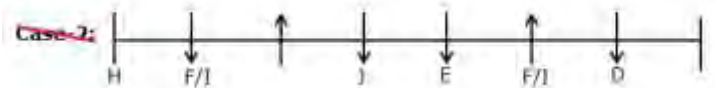


Again, we have

- F sits fourth to the left of I, where both of them face the same direction.

- G sits second to the left of F.

After applying the above conditions case-2 gets eliminated because there is no possibility to place G, hence case-1 shows the final arrangement.



Score Booster

Directions (1-5): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

1. Statements:

- Only a few cars are bike
- All bikes are truck
- No bike is van
- Few vans are cycle

Conclusions:

- I. Some cycles are not bike
- II. All trucks can be car
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

2. Statements:

- Only a few lakes are pond
- No pond is sea

All sea is river

At least some rivers are well

Conclusions:

- I. Some ponds being rivers is a possibility
- II. Some lakes are not well
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

3. Statements:

- No comet is star
- Only a few soils are comet
- Few planets are soils
- Only a few satellites are stars

Conclusions:

- I. All soils being stars is a possibility
- II. Some satellites can be planets
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow

- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

4. Statements:

Only a few tools are device

No tool is motor

All devices are machine

At least some machines are spin

Conclusions:

- I. Some machines are not motor
- II. Some devices can be spin
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

5. Statements:

Only a few pins are box

No pin is sticker

Only a few stickers are note

All gums are note

Conclusions:

- I. All stickers being gum is a possibility
- II. Some notes are not box
- a) Only conclusion I follows
- b) Either conclusion I or II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows
- e) Neither conclusion I nor II follows

Directions (6-8): In the given questions, the relationship between different elements is shown

in the statements followed by some conclusions.
Find the conclusion which is definitely true.

6. Statements:

$E \geq D \geq F < L$; $N < M > P \geq G$; $A < H < F \geq M$

Conclusions:

- I. $E \geq G$
- II. $L > A$
- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

7. Statements:

$D > Y \geq C < K$; $U \leq A > V = I$; $N \leq U > B = C$

Conclusions:

- I. $A > Y$
- II. $D > I$
- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

8. Statements:

$H < P \geq Y = F$; $J > I > Z > H$; $R > P \leq X = V$

Conclusions:

- I. $F \leq V$
- II. $J > Y$
- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true

e) Neither conclusion I nor II is true

Directions (9-10): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

9. Statements:

$D \geq K = P = O \geq S$; $W \leq M = O > J > F$

Conclusions:

I. $D \geq W$

II. $P > F$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

10. Statements:

$Q \leq Z > L < V$; $B = V \leq T \leq E = P$

Conclusions:

I. $P \geq Q$

II. $E > L$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Both conclusions I and II are true
- d) Either conclusion I or II is true
- e) Neither conclusion I nor II is true

Directions (11-15): Study the following information carefully and answer the questions given below.

In a certain code language,

“Lyrics played major role” means “qt lu hj wq”

“Playlists movie scene lyrics” means “as pi lu ij”
“Major scene telecast artist” means “wq fg as mn”

“Character major role scene” means “hj wq sf as”

(Note: All the given codes are two letter codes only)

11. What is the code for the phrase “Character role” in the given code language?

- a) hj qt
- b) as lu
- c) sf hj
- d) wq qt
- e) None of these

12. What is the phrase for the code “qt as” in the given code language respectively?

- a) Lyrics character
- b) Role artist
- c) Played playlists
- d) Role character
- e) Played scene

13. If “Movie scene” is coded as “pi as”, then what is the code for the phrase “Playlists lyrics” in the given code language?

- a) hj pi
- b) ij lu
- c) mn qt
- d) wq as
- e) hj ij

14. What is the code for the phrase “Major artist” in the given code language?

- a) af as
- b) wq fg
- c) wq as
- d) wq mn
- e) Either b or d

15. What is the code for the word "telecast" in the given code language?

- a) fg
- b) sf
- c) mn
- d) Cannot be determined
- e) lu

Directions (16-18): Study the following information carefully and answer the questions given below.

Person A starts walking from point Q towards the south and walks for 7m to reach point R, and then he takes a left turn and walks for 5m to reach point S. Then he walks for 4m to reach point T after taking a right turn. Then he takes a left turn and walks for 8m to reach point U.

Person B starts walking from point J towards the west and walks for 6m to reach point K, then he takes a left turn and walks for 3m to reach point L. Then he walks for 4m to reach point M after taking a left turn. Finally, he takes a right turn and walks for 7m to reach point U.

16. Four of the following five pairs of points are alike in a certain way based on the directions in the given arrangement and thus form a group.

Which one of the following does not belong to the group?

- a) RK
- b) SJ
- c) JT
- d) UJ
- e) TK

17. What is the shortest distance between point K and point M?

- a) 12m
- b) 3m
- c) 10m
- d) 5m
- e) 6m

18. What is the direction of point S with respect to point K?

- a) East
- b) South-west
- c) North-east
- d) South
- e) North-west

Directions (19-20): Study the following information carefully and answer the questions given below.

Point G is 5m north of point Y and 6m south of point T. Point L is 4m east of point T. Point K is 6m south of point L and 7m east of point S, which is 10m north of point D. Point I is 5m north of point D.

19. What is the distance and direction of point I with respect to point Y?

- a) 4m, south
- b) 5m, east
- c) 3m, west
- d) 3m, east
- e) 6m, north

20. If point A is 6m north of point S, then the distance between points L and A is equal to the distance between which of the following points?

- a) LK
- b) SD
- c) TL
- d) TG
- e) KS

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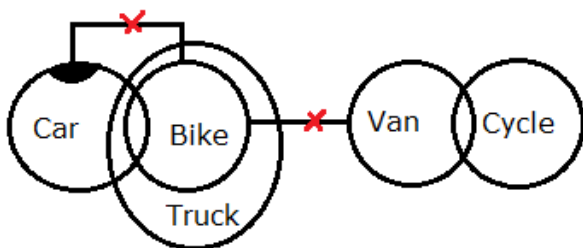
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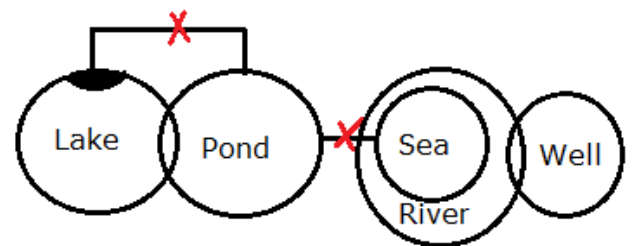
Answer Key with Explanation

Directions (1-5):

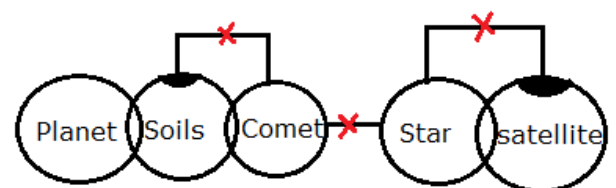
1. Answer: C



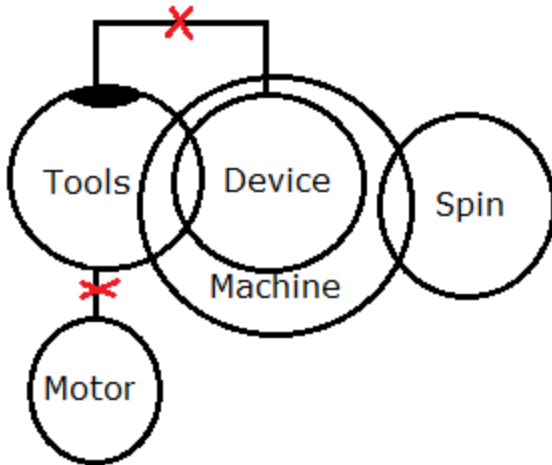
2. Answer: A



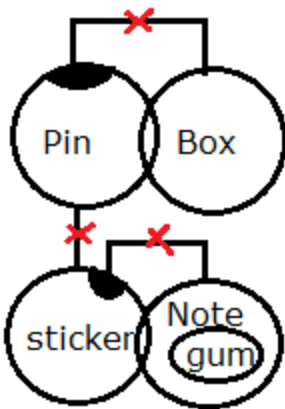
3. Answer: D



4. Answer: C



5. Answer: E



Directions (6-8):

6. Answer: B

$E \geq D \geq F < L$; $N < M > P \geq G$; $A < H < F \geq M$

Conclusions:

I. $E \geq G$ ($E \geq D \geq F \geq M > P \geq G$) ->False

II. $L > A$ ($L > F > H > A$) ->True

7. Answer: E

$D > Y \geq C < K$; $U \leq A > V = I$; $N \leq U > B = C$

Conclusions:

I. $A > Y$ ($A \geq U > B = C \leq Y$) ->False

II. $D > I$ ($D > Y \geq C = B < U \leq A > V = I$) ->False

8. Answer: A

$H < P \geq Y = F$; $J > I > Z > H$; $R > P \leq X = V$

Conclusions:

I. $F \leq V$ ($V = X \geq P \geq Y = F$) ->True

II. $J > Y$ ($J > I > Z > H < P \geq Y$) ->False

Directions (9-10):

9. Answer: C

$D \geq K = P = O \geq S$; $W \leq M = O > J > F$

Conclusions:

I. $D \geq W$ ($D \geq K = P = O = M \geq W$) ->True

II. $P > F$ ($P = O > J > F$) ->True

10. Answer: B

$Q \leq Z > L < V$; $B = V \leq T \leq E = P$

Conclusions:

I. $P \geq Q$ ($P = E \geq T \geq V > L < Z \geq Q$) ->False

II. $E > L$ ($E \geq T \geq V > L$) ->True

Directions (11-15):

11. Answer: C

12. Answer: E

13. Answer: B

14. Answer: E

15. Answer: D

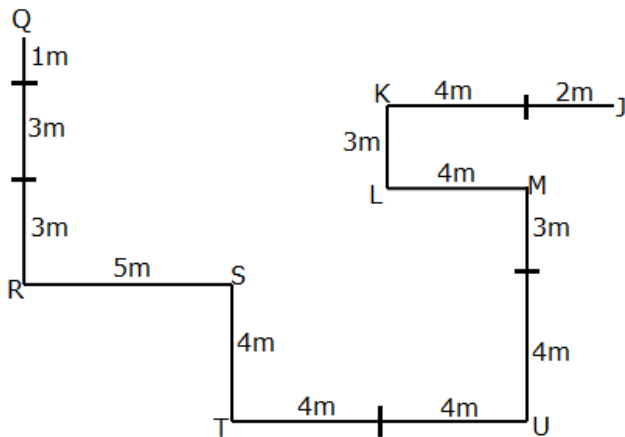
Words	Codes
Lyrics	lu
Played	qt
Major	wq
Role	hj
Playlists/movie	pi/ij
Scene	as
Telecast/Artist	fg/mn
Character	sf

Directions (16-18):

16. Answer: C (Second point is north-east of first point, except in option c)

17. Answer: D

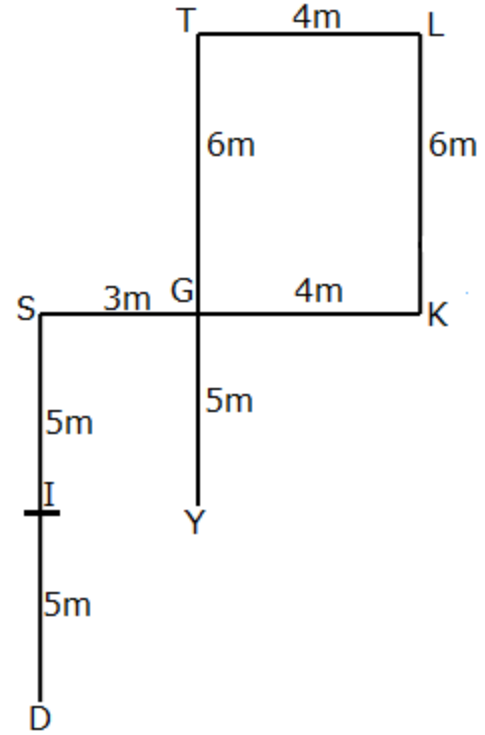
18. Answer: B



Directions (19-20):

19. Answer: C

20. Answer: E



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IBPS Clerk Prelims Bundle Day-1

Directions (1-5): Study the following information carefully and answer the questions given below.

Eight persons - A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them are sitting at the corners and facing the centre while four of them are sitting in the middle of the sides and facing away from the centre.

C sits second to the right of H, who doesn't sit at the corner of the table. Two persons sit between C and G. B sits immediate right of G. F sits third to the right of B. One person sits between F and A. As many persons sit between A and H as between F and D, who is not an immediate neighbour of E.

1. If all the persons are made to sit in alphabetical order in a clockwise direction from A, then how many persons remain unchanged in their position (Excluding A)?

- a) One
- b) Two
- c) None
- d) Three
- e) More than three

2. What is the position of E with respect to G?

- a) Immediate left
- b) Third to the right
- c) Immediate right
- d) Second to the right
- e) Fifth to the right

3. Which of the following pairs of persons sit immediate right of each other?

- a) H and B
- b) D and G
- c) E and C
- d) H and F
- e) A and C

4. How many persons sit between F and C, when counted from the left of F?

- a) Four
- b) Two
- c) Three
- d) One
- e) No one

5. Who among the following person sits opposite to the one who sits second to the right of E?

- a) D
- b) C
- c) B
- d) F
- e) G

Directions (6-10): Study the following information carefully and answer the questions given below.

Certain number of persons are sitting in a linear row and facing north. Not more than eighteen persons sit in the row.

E sits fifth to the right of T. Only one person sits between E and G. O sits fourth to the left of G.

Only three persons sit between O and F. As many persons sit between F and T as between F and K. P sits immediate left of K. Y sits second to the right of P and sits third from one of the extreme ends. As many persons sit to the left of Y as to the right of L.

6. How many persons are sitting in the row?

- a) 17
- b) 18
- c) 13
- d) 16
- e) 12

7. As many persons sit between L and G as between Y and ____.

- a) P
- b) F
- c) K
- d) O
- e) T

8. Which of the following statements is/are true based on the given information?

- I. T sits immediate right of O
 - II. Both E and L are not immediate neighbours
 - III. Only three persons sit to the left of G
- a) Only II
 - b) Only I and II
 - c) Only I and III
 - d) Only III
 - e) Only I

9. What is the position of E from the right end of the row?

- a) Second
- b) Third
- c) Seventh
- d) Sixth
- e) Fifth

10. Who among the following person sits exactly between K and T?

- a) L
- b) O
- c) P
- d) F
- e) G

Directions (11-15): Study the following information carefully and answer the questions given below.

Seven persons - L, M, N, O, P, Q and R are working in a college at different designations such as Vice Chancellor, Director, Dean, HOD, Assistant Professor, Lab Assistant and Peon.

The designations are given in decreasing order such as the vice Chancellor is the seniormost designation and Peon is the juniormost designation.

Only two persons are designated between P and M, who is not junior to the Director. R is two persons junior to P. As many persons junior to R as senior to O. Only two persons are designated between O and L. Only one person is designated between L and Q. N is not designated as Dean.

11. Who among the following person is designated as Dean?

- a) L
- b) P
- c) O
- d) R
- e) Q

12. How many persons are designated between M and Q?

- a) As many persons designated between R and Q
- b) One
- c) Four
- d) Three
- e) As many persons designated between P and L

13. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) MO
- b) RN
- c) PL
- d) QR
- e) OQ

14. Who among the following are juniormost and seniormost designated persons respectively?

- a) N, M
- b) M, R
- c) Q, O
- d) R, O

e) L, P

15. R works in which of the following designation?

- a) Assistant Professor
- b) Peon
- c) Lab Assistant
- d) Director
- e) HOD

Directions (16-20): Study the following information carefully and answer the questions given below.

Eight persons – D, E, F, G, H, I, J and K visited the museum in eight different months viz.

January, March, April, May, June, July, August and December of the same year.

H visited in a month having 30 days. Only three persons visited between H and D. As many persons visited before D as after J. F visited immediately before J. Only two persons visited between F and I. K visited two persons after I. G visited before E, who doesn't visit in April month.

16. Who among the following person visited the museum in August?

- a) D
- b) H
- c) F
- d) G
- e) J

17. How many persons visited between D and E?

- a) As many persons visited before J
- b) Four
- c) Two
- d) Three
- e) As many persons visited after E

18. J visits the museum in which of the following month?

- a) December
- b) March
- c) June
- d) August
- e) May

19. As many persons visited between I and D as between K and ___.

- a) E
- b) F
- c) J
- d) H
- e) D

20. If J is related to H and I is related to G in a certain way, then in the same way who among the following person is related to K?

- a) G
- b) F
- c) H
- d) E
- e) D

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Answer Key with Explanation

Directions (1-5):

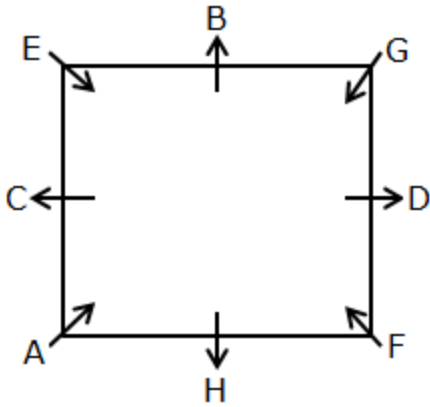
- 1. Answer: A
- 2. Answer: D
- 3. Answer: C
- 4. Answer: B

5. Answer: E

Final arrangement

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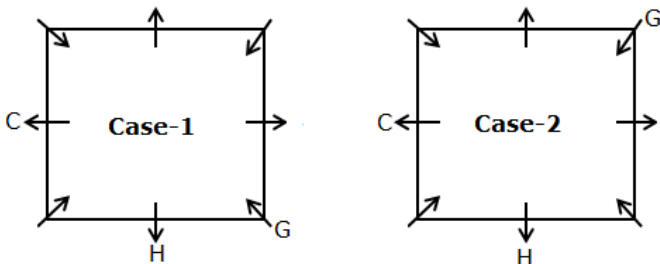
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We have,

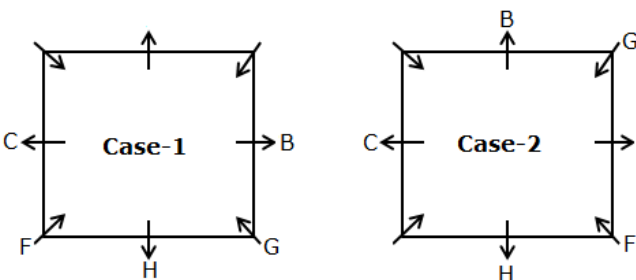
- C sits second to the right of H, who doesn't sit at the corner of the table.
- Two persons sit between C and G.

From the above conditions, there are two possibilities



Again, we have

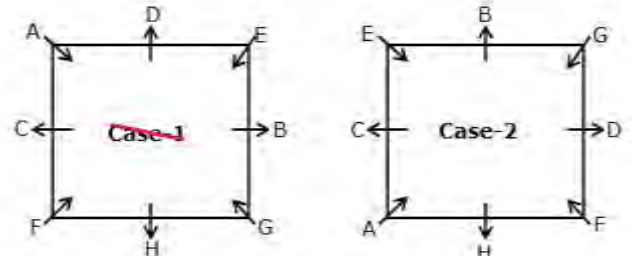
- B sits immediate right of G.
- F sits third to the right of B.



Again, we have

- One person sits between F and A.
- As many persons sit between A and H as between F and D, who is not an immediate neighbour of E.

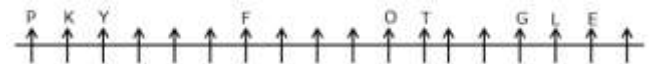
After applying the above conditions case-1 gets eliminated because there is no possibility to place E, hence case-2 shows the final arrangement.



Directions (6-10):

6. Answer: B
7. Answer: C
8. Answer: E
9. Answer: A
10. Answer: D

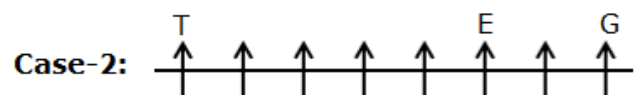
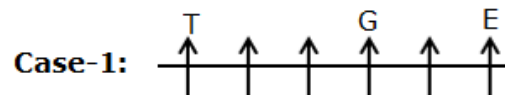
Final arrangement



We have,

- E sits fifth to the right of T.
- Only one person sits between E and G.

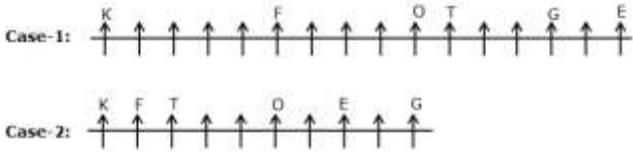
From the above conditions, there are two possibilities



Again, we have,

- O sits fourth to the left of G.
- Only three persons sit between O and F.

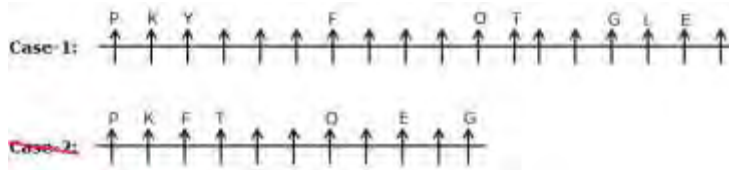
- As many persons sit between F and T as between F and K.



Again, we have

- P sits immediate left of K.
- Y sits second to the right of P and sits third from one of the extreme ends.
- As many persons sit to the left of Y as to the right of L.

After applying the above conditions case-2 gets eliminated because there is no possibility to place Y, hence case-1 shows the final arrangement.



Directions (11-15):

- Answer: E
- Answer: B
- Answer: D (First person is immediately senior to the second person except in option d)
- Answer: A
- Answer: C

Final arrangement

Designation	Persons
Vice Chancellor	M
Director	O
Dean	Q
HOD	P
Assistant Professor	L
Lab Assistant	R
Peon	N

We have,

- Only two persons are designated between P and M, who is not junior to the Director.
- R is two persons junior to P.

From the above conditions, there are two possibilities

	Case-1	Case-2
Designation	Persons	Persons
Vice Chancellor		M
Director	M	
Dean		
HOD		P
Assistant Professor	P	
Lab Assistant		R
Peon	R	

Again, we have

- As many persons junior to R as senior to O.
- Only two persons are designated between O and L.

	Case-1	Case-2
Designation	Persons	Persons
Vice Chancellor	O	M
Director	M	O
Dean		
HOD	L	P
Assistant Professor	P	L
Lab Assistant		R
Peon	R	

Again, we have

- Only one person is designated between L and Q.
- N is not designated as Dean.

After applying the above conditions case-1 gets eliminated because N is designated as Dean, hence case-2 shows the final arrangement.

	Case-1	Case-2
Designation	Persons	Persons
Vice Chancellor	O	M
Director	M	O
Dean	N	Q
HOD	L	P
Assistant Professor	P	L
Lab Assistant	Q	R
Peon	R	N

Directions (16-20):

16. Answer: A
17. Answer: E
18. Answer: B
19. Answer: D
20. Answer: A

Final arrangement

Month	Persons
January	F
March	J
April	H
May	I
June	G
July	K
August	D
December	E

We have,

- H visited in the month having 30 days.
- Only three persons visited between H and D.

From the above conditions, there are two possibilities

	Case-1	Case-2
Month	Persons	Persons
January		D
March		
April	H	
May		
June		H
July		
August	D	
December		

Again, we have

- As many persons visited before D as after J.
- F visited immediately before J.
- Only two persons visited between F and I.

	Case-1	Case-2
Month	Persons	Persons
January	F	D
March	J	
April	H	
May	I	I
June		H
July		
August	D	F
December		J

Again, we have

- K visited two persons after I.
- G visited before E, who doesn't visit in April month.

After applying the above conditions case-2 gets eliminated because E visited in April month, hence case-1 shows the final arrangement.

	Case-1	Case-2
Month	Persons	Persons
January	F	D
March	J	G
April	H	E
May	I	I
June	G	H
July	K	K
August	D	F
December	E	J

Score Booster

Direction (1-3): In the given question, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

1. Statements:

$$A \leq R < M = S \geq T; X \leq K \leq T < B = P < Z$$

Conclusions:

- I. $M > X$
 - II. $Z > A$
- a) Only conclusion I is true
 - b) Both conclusions I and II are true
 - c) Only conclusion II is true
 - d) Neither conclusion I nor II is true
 - e) Either conclusion I or II is true

2. Statements:

$$Q = H \leq F < N > L; T \leq L > J \geq C = I$$

Conclusions:

- I. $I < N$
 - II. $T > Q$
- a) Only conclusion I is true
 - b) Both conclusions I and II are true
 - c) Only conclusion II is true
 - d) Neither conclusion I nor II is true
 - e) Either conclusion I or II is true

3. Statements:

$$E < A > Q \geq S = O; W \geq Y > A < K < M$$

Conclusions:

- I. $W > O$
 - II. $M > E$
- a) Only conclusion I is true
 - b) Both conclusions I and II are true
 - c) Only conclusion II is true

- d) Neither conclusion I nor II is true
- e) Either conclusion I or II is true

Direction (4-5): In the given question, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

4. Statements:

$S < B < V \geq E$; $X > J = S$; $R \leq V \leq Q$

Conclusions:

- I. $X > V$
- II. $Q > J$
- a) Only conclusion I is true
- b) Both conclusions I and II are true
- c) Only conclusion II is true
- d) Neither conclusion I nor II is true
- e) Either conclusion I or II is true

5. Statements:

$D > L \geq E = O$; $Q > P \geq E > S$; $Y = I > P$

Conclusions:

- I. $Y \geq S$
- II. $Q < D$
- a) Only conclusion I is true
- b) Both conclusions I and II are true
- c) Only conclusion II is true
- d) Neither conclusion I nor II is true
- e) Either conclusion I or II is true

Directions (6-8): Study the following information carefully and answer the questions given below.

Seven persons – P, Q, R, S, T, U and V earn different amount of money for their work. R earns more than S and V. T earns less than V but more than P. Q earns more than T but less than R and S. U earns less than Q but more than V. The person who earns the third highest amount earns Rs. 90,000.

6. How many persons earn more amount than V?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

7. If the sum of the amount earned by Q and S is Rs. 185000, then what may be the amount of money earned by R?

- a) Rs. 85000
- b) Rs. 50000
- c) Rs. 100000
- d) Rs. 40000
- e) Rs. 88000

8. What may be the amount earned by U?

- a) Rs. 40000
- b) Rs. 115000
- c) Rs. 100000
- d) Rs. 50000
- e) Either a or d

Directions (9-10): Study the following information carefully and answer the questions given below.

Six persons - A, B, C, D, E and F have different number of toffees. C has more than A and F. D has less than F. D has more than A but less than B, who has more than C. E has more than C but doesn't have the highest number of toffees. The person who has the second lowest number of toffee has 175 toffees and the person who has the third highest number of toffees has 350 toffees.

9. What may be the toffees with F?

- a) 450
- b) 151
- c) 388
- d) 250
- e) 168

10. If the sum of the toffees with D and A is 325, then what is the difference between the toffees with C and A?

- a) 300
- b) 250
- c) 200
- d) 290
- e) 350

Directions (11-15): Study the following information carefully and answer the questions given below.

WOL MEK YBJ NCS QFA

11. If the positions of the first and the second letters of all the words are interchanged, then how many words will form a meaningful word?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

12. If all the letters are arranged in alphabetical order within the word from the left end, then which of the following word is third according to the dictionary order?

- a) MEK
- b) YBJ
- c) WOL
- d) QFA
- e) NCS

13. If all the consonants are changed to the immediate previous letter and all the vowels are changed to the immediate next letter according to the English alphabetical series, then how many words thus formed will have at least one vowel?

- a) None
- b) Two
- c) One
- d) Four
- e) Three

14. If all the words in the given series are arranged in the dictionary order from left to right, then which of the following word is second from the left end?

- a) YBJ
- b) MEK
- c) QFA
- d) NCS
- e) WOL

15. If the position of the first and the third letters of each word will be interchanged, then how many words will start with a consonant?

- a) Five
- b) One
- c) Four
- d) Three
- e) None

Directions (16-18): Study the following information carefully and answer the questions given below.

W is the only daughter of X, who is the daughter-in-law of T. O is the brother of T and he is the uncle of U, who is the sister-in-law of X. P is the mother of A and wife of T. P has only two children. H is the son-in-law of A.

16. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) T
- b) P

- c) O
- d) X
- e) A

17. If Y is the sister of W, then how is U related to Y?

- a) Niece
- b) Sister
- c) Mother
- d) Maternal aunt
- e) Paternal aunt

18. How is H related to X?

- a) Son
- b) Son-in-law
- c) Grandson
- d) Grandfather
- e) Father

Directions (19-20): Study the following information carefully and answer the questions given below.

S is the son-in-law of U, who is the mother of G. G is the only son of U. Y is the daughter-in-law of J, who is the husband of U. C is the sister-in-law of Y, who has no siblings. P is the son of C and grandson of I, who is the father of S.

19. How is I related to G's sister?

- a) Nephew
- b) Grandfather
- c) Father-in-law
- d) Brother-in-law

e) Cannot be determined

20. How many female members are there in the family?

a) Six

b) Cannot be determined

c) Five

d) Four

e) Three

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Answer Key with Explanation

Direction (1-3):

1. Answer: D

$A \leq R < M = S \geq T$; $X \leq K \leq T < B = P < Z$

Conclusions:

I. $M > X$ ($M = S \geq T \geq K \geq X$) ->False

II. $Z > A$ ($Z > P = B > T \leq S = M > R \geq A$) ->False

2. Answer: A

$Q = H \leq F < N > L$; $T \leq L > J \geq C = I$

Conclusions:

I. $I < N$ ($N > L > J \geq C = I$) ->True

II. $T > Q$ ($T \leq L < N > F \geq H = Q$) ->False

3. Answer: B

$E < A > Q \geq S = O$; $W \geq Y > A < K < M$

Conclusions:

I. $W > O$ ($W \geq Y > A > Q \geq S = O$) ->True

II. $M > E$ ($M > K > A > E$) ->True

Direction (4-5):

4. Answer: C

$S < B < V \geq E$; $X > J = S$; $R \leq V \leq Q$

Conclusions:

I. $X > V$ ($X > J = S < B < V$) ->False

II. $Q > J$ ($Q \geq V > B > S = J$) ->True

5. Answer: D

$D > L \geq E = O$; $Q > P \geq E > S$; $Y = I > P$

Conclusions:

I. $Y \geq S$ ($Y = I > P \geq E > S$) ->False

II. $Q < D$ ($D > L \geq E \leq P < Q$) ->False

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Directions (6-8):

6. Answer: D

7. Answer: C

8. Answer: E

- R earns more than S and V.
- T earns less than V but more than P.
- Q earns more than T but less than R and S.

I. $R > S > Q > V > T > P$

II. $R > S > V > Q > T > P$

III. $R > V > S > Q > T > P$

- U earns less than Q but more than V.
- The person who earns the third highest amount is Rs. 90,000.

$R > S > Q (90000) > U > V > T > P$

$R > S > Q (90000) > U > V > T > P$

The sum of amount earned by Q and S is Rs.

$185000 \rightarrow 90000 + S = 185000 \rightarrow S = 95000$

$S = 95000$

$R > S (95000) > Q (90000) > U > V > T > P$

Then the possible amount earned by R is Rs.

100000

Directions (9-10):

9. Answer: D

10. Answer: C

- C has more than A and F.
- D has less than F.

I. $C > A > F > D$

II. $C > F > D > A$

III. $C > F > A > D$

- D has more than A but less than B, who has more than C.

- E has more than C but doesn't have the highest number of toffees.
- The person who has the second lowest number of toffee has 175 toffees and the person who has the third highest number of toffees has 350 toffees.

$B > E > C (350) > F > D (175) > A$

$B > E > C (350) > F > D (175) > A$

The sum of the toffees with D and A is 325 -

$> 175 + A = 325 \quad A = 325 - 175 = 150$

$A = 150$

The difference between the toffees with C and A -

$> 350 - 150 = 200$

11. Answer: A

Given series:

WOL MEK YBJ NCS QFA

OWL EMK BYJ CNS FQA

12. Answer: E

Given series:

WOL MEK YBJ NCS QFA

LOW EKM BGY CNS AFQ

AFQ BGY CNS EKM LOW

13. Answer: B

Given series:

WOL MEK YBJ NCS QFA

VPK LFJ XAI MBR PEB

14. Answer: D

Given series:

WOL MEK YBJ NCS QFA

MEK NCS QFA WOL YBJ

15. Answer: C

Given series:

WOL MEK YBJ NCS QFA

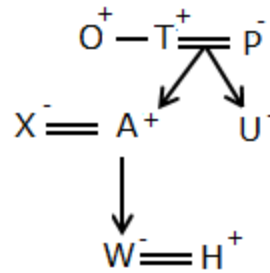
LOW KEM JBY SCN AFQ

Directions (16-18):

16. Answer: C (Exceptoption c, all the persons are married)

17. Answer: E

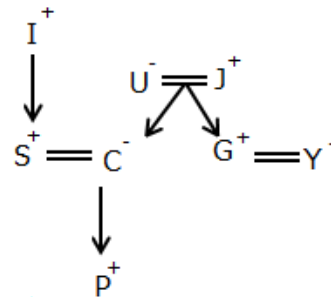
18. Answer: B



Directions (19-20):

19. Answer: C

20. Answer: E



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Directions (1-5): Study the following information carefully and answer the questions given below.

Seven persons – L, M, N, O, P, Q and R are sitting around a circular table facing the centre, but not necessarily in the same order.

Q sits second to the right of L. Only two persons sit between Q and M (either from left or right). P sits immediate left of M. Only one person sits between P and O (either from left or right). R sits second to the right of O.

1. Who among the following person sits third to the right of N?

- a) R
- b) O
- c) L
- d) M
- e) P

2. How many persons sit between R and M, when counted from the left of R?

- a) Three
- b) Four
- c) One
- d) Two
- e) No one

3. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) RQ
- b) NM
- c) PO
- d) ML

e) RN

4. Who among the following person sits second to the left of O?

- a) R
- b) The one who sits second to the left of Q
- c) M
- d) Q
- e) The one who sits immediate right of N

5. Which of the following statement is true with respect to the final arrangement?

- a) Only one person sits between P and R when counted from the right of R
- b) Q sits fourth to the left of L
- c) O sits immediate left of L.
- d) P sits second to the left of N
- e) Both c and d

Directions (6-9): In the given questions, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

6. Statement:

$W > X \geq H \geq I \geq L = J > B$

Conclusions:

- I. $X = L$
- II. $X > J$
- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

7. Statement:

$U \leq T < K < G < V \geq Q = P > Z$

Conclusions:

- I. $V \geq U$
- II. $G > Z$
- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

8. Statements:

$M \geq F > C = H < X; A \leq H < U$

Conclusions:

- I. $F < U$
- II. $M > A$
- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

9. Statement:

$Q < G < Z = N \geq E > R \geq S < V$

Conclusions:

- I. $Z > S$
- II. $Q < N$
- a) Only conclusion II is true
- b) Either conclusion I or II is true
- c) Both conclusions I and II are true
- d) Only conclusion I is true
- e) Neither conclusion I nor II is true

Directions (10-14): Study the following information carefully and answer the questions given below.

Seven persons - A, B, C, D, E, F and G bought a thing one after another but not necessarily in the same order.

Only three persons bought between C and G. Only two persons bought between G and E. B bought a thing two persons before E. Only one person bought between E and A. As many persons bought a thing before A as after F.

10. How many persons bought a thing after D?

- a) Four
- b) Three
- c) Two
- d) One
- e) No one

11. As many persons bought a thing before B as after ____.

- a) D
- b) A
- c) C
- d) E
- e) F

12. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) FB
- b) GD

- c) BG
- d) EA
- e) DC

13. Who among the following person bought a thing at last?

- a) The one who bought immediately after C
- b) G
- c) F
- d) B
- e) The one who bought two persons after G

14. Which of the following statement(s) is/are true with respect to the final arrangement?

- I. Only two persons bought a thing between B and C
 - II. No one bought a thing between C and A
 - III. F bought a thing immediately before G
- a) Only I
 - b) Only III
 - c) Only II and III
 - d) Only I and II
 - e) All I, II and III

15. In a certain code language, "LOTUS" is coded as "TVUPM" and "SQUARE" is coded as "FSBVRT", then in the same manner, How "EMPTY" will be coded?

- a) ZSQND
- b) FSNQU
- c) FUQNI
- d) ZUQNF
- e) ZSQNF

Directions (16-19): Study the following information carefully and answer the questions given below.

LIN HBZ TAN AIY YPU

16. If all the words are arranged in alphabetical order from the left end, then which of the following word is second from the right end?

- a) LIN
- b) AIY
- c) YPU
- d) TAN
- e) HBZ

17. If the first and the third letters of each word are interchanged, then how many new words thus formed will end with a vowel?

- a) Three
- b) Two
- c) One
- d) More than three
- e) None

18. If all the consonants are changed to the immediate previous letter as per the English alphabetical series, then how many words will have at least one vowel?

- a) Three
- b) Two
- c) One
- d) Four
- e) Five

19. If the second letter in each word is replaced by "O", then which of the following is formed a meaningful word?

- a) AIY
- b) HBZ
- c) TAN
- d) Both b and c
- e) None

Directions (20-24): Study the following information carefully and answer the questions given below.

Eight boxes - L, M, N, O, P, Q, R and S are kept one above another in a single stack, but not necessarily in the same order.

Only three boxes are kept between boxes M and P. Box P is kept two boxes below box L. Box O is kept immediately below box L. Only two boxes are kept between boxes O and R. Only one box is kept between boxes S and Q, which is kept three boxes below box R.

20. Which of the following box is kept immediately below box N?

- a) Box O
- b) Box S
- c) The box which is kept two boxes above box M
- d) Box P
- e) The box which is kept immediately above box Q

21. How many boxes are kept above box S?

- a) One
- b) Two
- c) Three

- d) More than four
- e) None

22. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) LP
- b) MQ
- c) NS
- d) SQ
- e) PR

23. If all the boxes are arranged in alphabetical order from the top, then how many boxes remain unchanged in their positions?

- a) One
- b) Two
- c) Three
- d) Four
- e) None

24. Which of the following statement is true with respect to the final arrangement?

- a) Box O is kept immediately above box Q
- b) Box S and M are not kept adjacent to each other
- c) Only two boxes are kept below box R
- d) Box L is kept two boxes above box N
- e) None of the statements are true

Directions (25-28): Study the following statements and then decide which of the given conclusions

logically follows from the given statements disregarding the commonly known facts.

25. Statements:

Only a few papers are line

No line is dot

All dots are paint

Conclusions:

I. All paper can never be dot

II. No paint is line

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion I nor II follows

e) Both conclusions I and II follow

26. Statements:

Only a few machines are switch

At least some switches are wire

No wire is board

Conclusions:

I. All switches can be board

II. Some machines can be wire

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion I nor II follows

e) Both conclusions I and II follow

27. Statements:

Some drinks are juice

No juice is noodles

Only a few noodles are jam

Conclusions:

I. Some jam is not juice

II. Some drinks can be noodles

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion I nor II follows

e) Both conclusions I and II follow

28. Statements:

Some chips are bucket

Few buckets are cup

All cups are coffee

Conclusions:

I. Some chips are not coffee

II. Some Coffee is bucket

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Neither conclusion I nor II follows

e) Both conclusions I and II follow

Directions (29-33): Study the following information carefully and answer the questions given below.

Seven persons - A, B, C, D, E, F and G are working in a bank at different designations. The designations are in decreasing order such as General Manager (GM), Assistant General Manager (AGM), Senior Manager (SM), Manager, Senior Clerk (SCL), Clerk and Office Assistant (OA).

Note: General Manager (GM) is the seniormost designation and Office assistant is the juniormost designation.

C is senior to Senior Manager. Only two persons are designated between C and E. D is immediately junior to E. Only one person is designated between D and B. A is three persons junior to B. F is senior to A but junior to G.

29. Who among the following person is General Manager (GM)?

- a) C
- b) A
- c) E
- d) G
- e) B

30. How many persons are senior to F?

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

31. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) CB
- b) GF
- c) EA
- d) FE
- e) ED

32. If all the persons are designated in alphabetical order from senior most to juniormost designations, then how many persons remain unchanged in their designations?

- a) One
- b) Three
- c) Two
- d) Four
- e) No one

33. In which of the following designation does C work?

- a) Senior Clerk (SCL)
- b) Senior Manager (SM)
- c) Clerk
- d) Assistant General Manager (AGM)
- e) Office Assistant (OA)

Directions (34-36): Study the following information carefully and answer the questions given below.

A person walks for 5m towards the west to reach point A. Then he turns to his right and walks for 6m to reach point B. Then, he turns to his right and walks for 8m to reach point C and again he turns to his right and walks for 10m to reach point D. Finally, he turns to his right and walks for 3m to reach point E.

34. What is the shortest distance between the starting point of the person and point D?

- a) 7m
- b) 10m
- c) 3m

- d) 5m
- e) None of these

35. If point W is 4m north of point D, then the distance between points W and C is equal to which of the following points?

- a) BC
- b) AB
- c) ED
- d) EA
- e) None of these

36. Four of the following five are alike in a certain way based on the directions of the points in the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) BE
- b) AD
- c) CE
- d) BD
- e) AE

Directions (37-39): Study the following information carefully and answer the questions given below.

H is the wife of A and daughter of J. K is the father of only A and M. M is the sister-in-law of H. T is the nephew of M, who is the daughter of R.

37. How is J related to T?

- a) Grandson

- b) Grandmother
- c) Grandfather
- d) Granddaughter
- e) Either b or c

38. How is R related to H?

- a) Father-in-law
- b) Cousin Brother
- c) Maternal aunt
- d) Mother-in-law
- e) Cannot be determined

39. If D is the uncle of H, then how is D related to J?

- a) Brother
- b) Mother
- c) Son
- d) Brother-in-law
- e) Cannot be determined

Directions (37-39):

40. How many meaningful words can be formed from the second, third, sixth and seventh letters of the word "FERVENT" using each letter only once in each word?

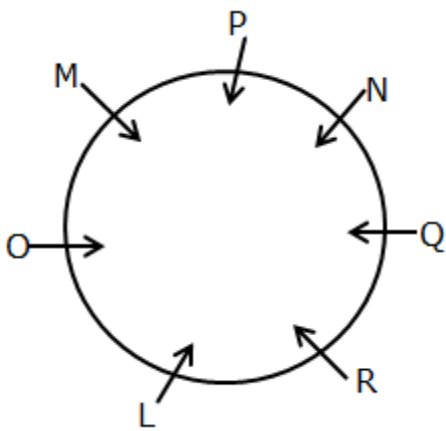
- a) One
- b) Two
- c) Three
- d) More than three
- e) None

Answer Key with Explanation

Directions (1-5):

- 1) Answer: B
- 2) Answer: D
- 3) Answer: A (First person sits second to the left of second person except option a)
- 4) Answer: E
- 5) Answer: C

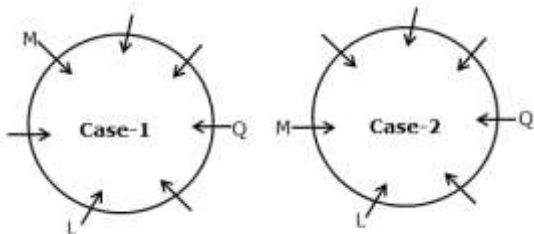
Final arrangement



We have,

- Q sits second to the right of L.
- Only two persons sit between Q and M (either from left or right).

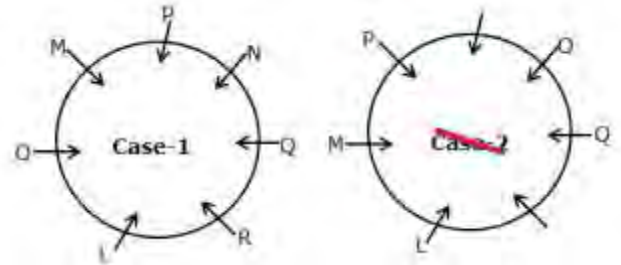
From the above conditions, there are two possibilities



Again we have,

- P sits immediate left of M.
- Only one person sits between P and O (either from left or right).
- R sits second to the right of O.

After applying the above conditions case-2 gets eliminated because there is no possibility to place R, hence case-1 shows the final arrangement



6) Answer: B

$W > X \geq H \geq I \geq L = J > B$

Conclusions:

- I. $X = L$ ($X \geq H \geq I \geq L$) \rightarrow False
- II. $X > J$ ($X \geq H \geq I \geq L = J$) \rightarrow False

By combining I and II, we have either conclusion I or II is true

7) Answer: E

$U \leq T < K < G < V \geq Q = P > Z$

Conclusions:

- I. $V \geq U$ ($V > G > K > T \geq U$) \rightarrow False
- II. $G > Z$ ($G < V \geq Q = P > Z$) \rightarrow False

8) Answer: A

$M \geq F > C = H < X$; $A \leq H < U$

Conclusions:

- I. $F < U$ ($U > H = C < F$) \rightarrow False
- II. $M > A$ ($M \geq F > C = H \geq A$) \rightarrow True

9) Answer: C

$Q < G < Z = N \geq E > R \geq S < V$

Conclusions:

I. $Z > S$ ($Z = N \geq E > R \geq S$) \rightarrow True

II. $Q < N$ ($N = Z > G > Q$) \rightarrow True

Directions (10-14):

10) Answer: B

11) Answer: D

12) Answer: C

13) Answer: A

14) Answer: E

Final arrangement

Persons
F
G
B
D
E
C
A

We have,

- Only three persons bought between C and G.
- Only two persons bought between G and E.

From the above conditions, there are two possibilities

Case-1	Case-2
Persons	Persons
C	G
E	
	E
G	C

Again we have,

- B bought a thing two persons before E.
- Only one person bought between E and A.

Case-1	Case-2
Persons	Persons
B	G
C	B
E	
	E
A	C
G	A

Again we have,

- As many persons bought a thing before A as after F.

After applying the above condition case-1 gets eliminated because there is no possibility to place F, hence case-2 shows the final arrangement.

Case-1	Case-2
Persons	Persons
B	F
C	G
E	B
	D
A	E
G	C
	A

15. Answer: D

All the letters are coded with its immediate succeeding letter as per the English alphabetical series and written in reverse order.

E M P T Y
F N Q U Z
Z U Q N F

16) Answer: D

LIN HBZ TAN AIY YPU
AIY HBZ LIN TAN YPU

17) Answer: C

LIN HBZ TAN AIY YPU
NIL ZBH NAT YIA UPY

18) Answer: E

LIN HBZ TAN AIY YPU
KIM GAY SAM AIX XOU

19) Answer: C

LIN HBZ TAN AIY YPU
LON HOZ TON AOY YOU

Directions (20-24):

20) Answer: C

21) Answer: D

22) Answer: B (Only one box is kept between both boxes except option b)

23) Answer: A

24) Answer: E

Final arrangement:

Box
L
O
P
N
R
S
M
Q

We have,

- Only three boxes are kept between boxes M and P.
- Box P is kept two boxes below box L.

From the above conditions, there are two possibilities

Case-1	Case-2
Box	Box
L	M
P	L
	P
M	

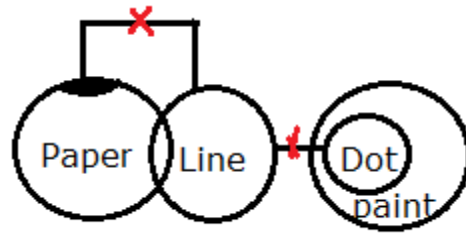
Again we have,

- Box O is kept immediately below box L.
- Only two boxes are kept between boxes O and R.
- Only one box is kept between boxes S and Q, which is kept three boxes below box R.

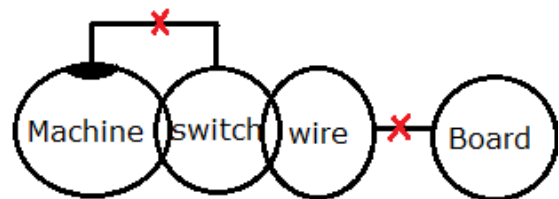
After applying the above conditions case-2 gets eliminated because there is no possibility to place Q, hence case-1 shows the final arrangement

Case-1	Case-2
Box	Box
L	M
O	
P	L
N	O
R	P
S	
M	R
Q	

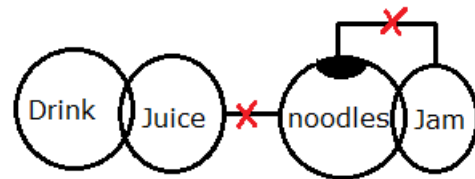
25) Answer: A



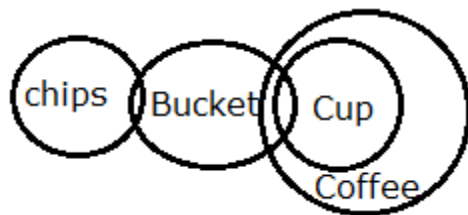
26) Answer: B



27) Answer: E



28) Answer: B



Directions (29-33):

29) Answer: D

30) Answer: B

31) Answer: E (Only one person is designated between both the persons except option e)

32) Answer: A

33) Answer: D

Final arrangement

Designation	Persons
General Manager (GM)	G
Assistant General Manager (AGM)	C
Senior Manager (SM)	F
Manager	B
Senior Clerk	E
Clerk	D
Office Assistant	A

We have,

- C is senior to Senior Manager.
- Only two persons are designated between C and E.

From the above conditions, there are two possibilities

	Case-1	Case-2
Designation	Persons	Persons
General Manager (GM)		C
Assistant General Manager (AGM)	C	
Senior Manager (SM)		
Manager		E
Senior Clerk	E	
Clerk		
Office Assistant		

Again we have,

- D is immediately junior to E.
- Only one person is designated between D and B.
- A is three persons junior to B.

- F is senior to A but junior to G.

After applying the above conditions case-2 gets eliminated because there is no possibility to place G, hence case-1 shows the final arrangement.

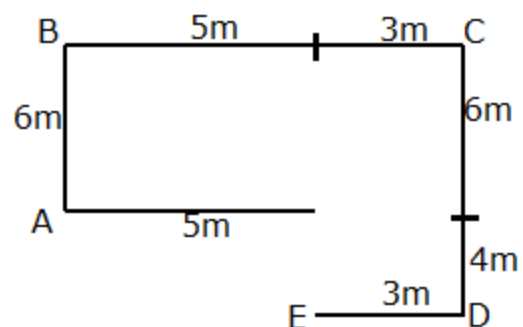
	Case-1	Case-2
Designation	Persons	Persons
General Manager (GM)	G	C
Assistant General Manager (AGM)	C	F
Senior Manager (SM)	F	B
Manager	B	E
Senior Clerk	E	D
Clerk	D	A
Office Assistant	A	

Directions (34-36):

34) Answer: D

35) Answer: B

36) Answer: C (First point is to the northwest of second point except option c)

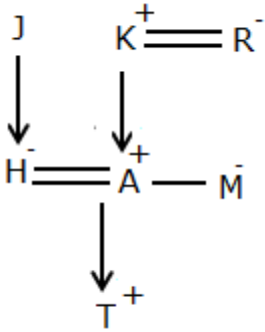


Directions (37-39):

37) Answer: E

38) Answer: D

39) Answer: E



40. Answer: A

Chosen letters

E, R, N and T

Word formed is RENT.

IBPS PO Mains Memory Based Paper Held on 26th November 2022

Directions (1-5): Study the following information carefully and answer the questions given below.

Nine persons – A, B, C, D, E, F, G, H and I live in three different states- Assam, Tripura and Manipur. Each of them is of different age. Not less than two and more than four persons live in the same state.

Note:

I. The age of the youngest person is 18 years.

II. No two persons have the same age.

III. If it's said that X and the one whose age is "Y" are living in the same state, then it means both of them live in the same state but X's age is not "Y"

G and the one whose age is 64 years are living in the same state. Both C and E are living in the same state. C neither lives with G nor lives in Manipur. B and the one whose age is 58 years are living in the same state but both of them live

neither in Assam nor in Tripura. B's age is 47 years, which is 12 years more than E's age. The sum of the ages of A and G is 74 years and the age of A is less than 25 years. A lives with neither G nor B. A doesn't live in Assam. The sum of the ages of B and F is 65 years. H lives with F but not lives with A and the age of H is 7 years more than F. The youngest person doesn't live with G. D doesn't live with H. The age of I is 16 years more than C's age. C's age is 5 years less than G.

1. What is the sum of the ages of the persons living in Tripura?

- a) 138 years
- b) 104 years
- c) 128 years
- d) 135 years
- e) 125 years

2. Who among the following person lives in Assam?

- a) C
- b) E
- c) D
- d) G
- e) H

3. Which of the following statements is/ are true based on the given information?

- a) D lives in Assam only with G
- b) The age difference between I and D is 11 years
- c) The sum of the age of the one who lives with H and A is 39 years
- d) A lives in Manipur
- e) All the given statements are true

4. E lives in which of the following state?

- a) Tripura
- b) Manipur
- c) Assam
- d) Either a or b
- e) Either b or c

5. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) C
- b) F
- c) I
- d) E

e) D

Directions (6-8): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both statements and Give an answer.

- (A) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (B) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (C) If the data either in statement I alone or in statement II alone is sufficient to answer the question.
- (D) If the data given in both statements I and II together are not sufficient to answer the question.
- (E) If the data in both statements I and II together are necessary to answer the question.

6. Six persons are sitting in a linear row and facing north. Who sits second to the right of C?

Statement I: A sits second from one of the extreme ends. Only two persons sit between A and B. F sits to the immediate left of B. E sits three places away from F. C sits third to the left of D.

Statement II: A sits third from one of the extreme ends. E sits second to the left of A. Only three persons sit between E and D. C sits third to the left of D. Only one person sits between F and B.

7. What is the direction of P with respect to W?

Statement I: Point Q is 5m east of point P and 7m north of point R. Point T is 4m west of point U and 11m north of point S, which is 6m east of point R. Point V is 3m south of point U and 5m east of point W.

Statement II: Point Q is 4m west of point P and 3m north of point R. Point W is 2m away from point V. Point S is 8m east of point R and 5m south of point T. Point U is 6m west of point T and 7m south of point V.

8. What is the code for the phrase "Up all" in the given code language?

Statement I: In a certain code language, "Arranged school annual day" is coded as "qm wn eb rv", "All Students prepared well" is coded as "tc yx uz ia", "Once all were arranged" is coded as "eb os pd tc" and "Getting up for school" is coded as "qm kj hg fh"

Statement II: In a certain code language, "Headed for important work" is coded as "ie ty as df", "Different theme concert ready" is coded as "gh jk zn ow" "All set for concert" is coded as "pq ow ie tu", and "Set up important theme" is coded as "mq as tu zn"

(Note: All the given codes are two letter codes only)

Directions (9-11): Study the following information carefully and answer the below questions.

In a certain code language,

"All Are Equal Fires" is coded as "#∞% (?) &∞! #Ω%"

"We Were Born Equal" is coded as "&∏* &©Δ #∞% &∏Δ"

"We All went Peace" is coded as "&©Δ#Ω% &∏\$ &∞Δ"

"Peace Fires Burn But" is coded as "&∏* &Ω\$ &∞Δ &∞!"

9) Which among the following comes in the place of (??)

- a) #Ω%
- b) #ΩΔ
- c) &ΩΔ
- d) &∞Δ
- e) #Ω\$

10) What is the code for "She Wrote Novel" in the code language?

- a) &∏* &©Δ #∞%
- b) &∞Δ &Ω\$ #Ω%
- c) &∞% #Ω% &∞Δ
- d) &∞Δ &∞% &ΩΔ
- e) None of these

11) Which of the following word represents "&∞! &∞Δ #Ω\$" in the code language?

- a) Gold Share Out
- b) Sales Turn Out
- c) Turn over Goods
- d) Over Share Pet
- e) Sales Share Out

Directions (12-15): Study the following information carefully and answer the below questions.

The family consists of ten persons- A, B, C, D, E, P, Q, R, S and T. They are sitting in two parallel rows containing five persons each, in such a way that there is an equal distance between adjacent persons. In row-1 A, B, C, D and E are seated and all of them are facing north. In row-2 P, Q, R, S and T are seated and all of them are facing south. Each person in row 1 faces exactly one person in row 2.

A sits second from one of the extreme ends of the row. Only one person sits between A and the one who faces A's son. Only two persons sit between B and A's sister-in-law who doesn't sit at the end of the row. B is the spouse of E and has only two children. P and C are the unmarried persons in the family. Only one of the children of A is married. A's only daughter-in-law sits second to the left of the P but doesn't sit at the end of the row. Only two persons sit between P and Q who sits to the right of A's spouse. C sits immediate left of the one who faces A's spouse. Only one of the children of E is married. Only one person sits between the one who faces C and A's father-in-law. S sits second to the right of the one who faces A's daughter. E doesn't sit at the end of the row. Only three persons sit between R and the one who faces A's father. P is the only son of A's mother.

12) Who among the following person sits second to the left of the one who faces E?

- a) P's sister-in-law
- b) S
- c) S's father-in-law
- d) E's Son
- e) Q

13) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) P
- b) Q's father
- c) T's granddaughter
- d) B
- e) C's nephew

14) Which of the following statement(s) is/are true based on the given information?

- I) D sits second to the right of R's mother-in-law
 - II) Only one person sits between S and D's father
 - III) A sits immediate right of P's mother
 - IV) T sits third to the right of E's Son-in-law
- a) Only I is true
 - b) Only I and IV are true
 - c) Only I and II are true
 - d) Only I, II and IV are true
 - e) All are true

15) If P is related to D and Q is related to A in a certain way, then in the same way who among the following person is related to C?

- a) A's father-in-law
- b) S
- c) R's daughter
- d) R
- e) C's brother-in-law

Directions (16-19): Study the following information carefully and answer the questions given below.

Nine persons - A, B, C, D, E, F, G, H, and J live on nine different floors of a nine storey building where the lowermost floor is numbered one and the floor immediately above it is numbered two and so on. They teach different subjects viz., Assamese, Bengali, Kannada, Gujarati, Telugu, Hindi, Odia, English and Sanskrit.

Only two persons live below G. Only one person lives between G and the one who teaches Sanskrit. As many persons live above the one who teaches Sanskrit as below A. Only two persons live between A and the one who teaches Hindi who lives below A. Only three persons live between B and the one who teaches Hindi. As many persons live above B as below the one who teaches English. Only two persons live between the one who teaches English and the one who teaches Gujarati. The one who teaches Gujarati lives immediately above the one who teaches Odia. The one who teaches Bengali lives on an even numbered floor and lives immediately below the one who teaches Assamese. Only one person lives between the one who teaches Assamese and H who doesn't teach Sanskrit. The one who

teaches Telugu lives below A but not on the bottommost floor. Only four persons live between the one who teaches Telugu and C. No one lives between F and C. D lives on one of the floors below E but above J.

16) How many persons live between H and the one who teaches Telugu?

- a) One
- b) Four
- c) Two
- d) Three
- e) Five

17) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) F
- b) The one who teaches Sanskrit
- c) H
- d) J
- e) The one who teaches Hindi

18) Which of the following statement is true as per the given arrangement?

- a) C lives immediately above the one who teaches Assamese
- b) No one lives between A and H
- c) G lives two floors above the one who teaches Kannada
- d) H teaches Odia
- e) E lives on the fifth floor

19) Who among the following person teaches Sanskrit?

- a) C
- b) The one who lives immediately above E
- c) F
- d) J
- e) The one who lives immediately below G

Directions (20-21): In the given questions, certain symbols have been used to indicate the relationships between different elements in the statements followed by some conclusions as follows. Find the conclusion(s) which is/are definitely true.

“A & B” means “A is not smaller than B”

“A * B” means “A is not greater than B”

“A @ B” means “A is neither greater than nor smaller than B”

“A % B” means “A is neither smaller than nor equal to B”

“A # B” means “A is neither greater than nor equal to B”

20) Statements:

R & M @ P % Q; T # P & S; Y * J # M

Conclusions:

- I) S * R
 - II) Q # Y
 - III) T % J
 - IV) R & T
- a) Both conclusions I and III are true
 - b) Only conclusion IV is true
 - c) Only conclusion III is true
 - d) All conclusions I, II and IV are true

e) Only conclusion I is true

21) Statements:

K % C * B # L; A & Z @ B; C % Q * H

Conclusions:

- I) A @ C
 - II) L % H
 - III) C # A
 - IV) A % K
- a) Both conclusions I and III are true
 - b) Either conclusions I or III and IV is true
 - c) Only conclusion III is true
 - d) Either conclusion I or III is true
 - e) Only conclusion I is true

Directions (22-24): Study the following information carefully and answer the questions given below.

There are two buses i.e. bus P and bus Q starts travelling from a common depot. Both the buses travel to five stoppages each.

Bus P travels for 8m towards the south direction from the depot to reach stoppage 1. Then turns towards the left and travels for 6m to reach stoppage 2. Then from stoppage 2 again turns towards the left and travels for 13m to reach stoppage 3. Then turns towards the left and travels for 10m to reach stoppage 4. Then finally bus P turns towards the right from stoppage 4 and travels for 5m to reach stoppage 5.

Bus Q travels for 10m towards the east direction from the depot to reach stoppage 6. Stoppage 8 is 11m east of stoppage 7. Stoppage 10 is 12m

west of stoppage 9 which is 18m south of stoppage 8. Stoppage 7 is east of stoppage 5 and north of stoppage 6.

These stoppages are assigned different names according to the below given conditions:

If the distance between the consecutive stoppages reached by bus is a prime number, then W is named to the first stoppage reached by bus.

If the stoppage is in the northwest or southwest direction from the depot, then the stoppage is named as "X".

If the stoppage is in the northeast or southeast direction from the depot, then the stoppage is named as "Y".

If the distance between the stoppage and the depot is an even number (calculate as total distance), then the stoppage is named as "Z".

22) Which of the following stoppages are assigned maximum names?

- a) Stoppages 5 and 6
- b) Stoppages 8 and 1
- c) Stoppages 2 and 7
- d) Stoppages 4 and 3
- e) Stoppages 9 and 2

23) If bus R travels for 10m towards the north from the depot to reach stoppage 11, then which of the following stoppages falls in the straight line of stoppage 11?

- a) Stoppage 5 and 4
- b) Stoppage 3 and 1
- c) Stoppage 9 and 10

- d) Stoppage 4
- e) Stoppage 5, 7 and 8

24) What is the direction of stoppage 6 with respect to stoppage 5?

- a) South-east
- b) South-west
- c) North-west
- d) North-east
- e) South

Directions (25-28): Study the following information carefully and answer the questions given below.

21 persons are working in a company in different designations such as Executive director (ED), Deputy General Manager (DGM), Assistant General Manager (AGM), Manager, Assistant Manager (AM) and Clerk, where Executive director (ED) is the senior most designation and Clerk is the junior most designation.

Note I: The number of persons working in each designation is one less than the number of persons working in their immediate junior designation.

Note II: If "a" works with "b" means both a and b are working in the same designation.

N is senior to Assistant Manager. Both E and Q are working with N. The number of designations higher than Q is the same as the number of designations lower than V. F is senior to V. Even numbers of persons are working in H's designation. U is senior to I but junior to H. Both

U and R are working in the same designation. R doesn't work with V. YCZ are working in the same designation. M is immediately senior to C and is not working with H. As many persons senior to B as junior to O. P is immediately senior to B. G is senior to M but junior to S. Odd number of persons are working in G's designation. W is senior to X but junior to L. L does not work as a Manager. S is not Deputy General Manager.

All the persons except the persons senior to Assistant General Manager (AGM) are transferred to three departments viz. Marketing, Legal and HR as per the following conditions:

I. The persons whose name starts with the letter which comes before "M" and also works with the persons whose name starts with a vowel which comes before "M" as per alphabetical order are transferred to marketing department.

II. The persons whose name starts with the letter which comes after "M" and also even number of persons works along with the person whose name starts with the letter which comes after "M" as per alphabetical series are transferred to Legal department.

III. All the remaining persons are transferred to HR department.

The person senior to Assistant general Manager (AGM) is assigned to head of the three departments as per the condition given below.

The person who is executive director is the head of the HR department and the persons who is the Deputy General Manager (DGM) is assigned to

the head of the Marketing and legal department as per alphabetical series respectively.

25. Who among the following person is the head of the Legal department?

- a) S
- b) V
- c) W
- d) X
- e) L

26. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- a) V-N
- b) M-I
- c) S-G
- d) O-E
- e) R-C

27. What is the difference between the number of persons in the Marketing and HR department?

- a) 3
- b) 6
- c) 5
- d) 4
- e) 1

28. How many persons work with H before the transfer?

- a) Four
- b) Five
- c) None
- d) Three

e) Two

Directions (29-30): Study the following information carefully and answer the questions given below.

“A#B” Means “A is the father of B”

“A%B” Means “A is the husband of B”

“A&B” Means “A is the Mother of B”

“A@B” Means “A is the sister of B”

“A*B” Means “A is the Brother of B”

“A\$B” Means “A is the Daughter of B”

29. In which of the following expression shows G is the daughter-in-law of H?

- a) H%W&T*R\$G
- b) S@F%H&Y@G
- c) G&I\$K*H\$W
- d) S%M\$H&C%G
- e) T#V%G@J*H

30. In the given expression, Q@T%B&N; V%Q&J*H, then how is N related to H?

- a) Sister
- b) Maternal uncle
- c) Cousin
- d) Niece
- e) Mother

Directions (31-33): Study the following information carefully and answer the questions given below.

Ten persons - A, B, C, D, E, L, M, N, O and P are sitting around a circular table in such a way that

five of them are facing the centre and five of them are facing away from the centre. No two consecutive alphabetically named persons are sitting adjacent to each other.

C sits second to the right of A. Three persons sit between C and M. C sits third to the right of L, who sits second to the right of B. Both D and P are immediate neighbours. D faces away from the centre. Both P and L are facing the same direction. N sits second to the right of E. Immediate neighbours of E are facing the same direction. Both P and A are facing the opposite direction. Immediate neighbours of B are facing the opposite direction. N faces the same direction as O.

31. Who among the following person sits third to the right of O?

- a) The one who sits second to the right of N
- b) B
- c) L
- d) The one who sits immediate right of C
- e) M

32. How many persons sit between P and M, when counted from the left of P?

- a) Three
- b) Five
- c) Two
- d) One
- e) Four

33) Four of the following five are alike in a certain way based on the given arrangement and thus

form a group. Which one of the following does not belong to the group?

- a)C
- b)D
- c)L
- d)M
- e)E

Directions (34-37): Study the following information carefully and answer the questions given below

Six persons - I, J, K, L, M and N travelled to different countries on any of the months and dates of the year 2022. They travelled to different countries-Austria, Fiji, Canada, France, Chile and Haiti, but not necessarily in the same order. Not more than two persons travelled in the same month.

L travelled on 17th of the month which has an even number of days but before August. Twenty-four days are there between L and the one who travelled to France, who was not travelled in March. M travelled three months after the one who travelled to France. K travelled nineteen days after M, who travelled on 25th of the month. The one who travelled to Canada travelled on 8th of the month and three months before K. Only two months are there between the one who travelled to Canada and Fiji, who travelled on 31st of the month. Only three months are there between the one who travelled to Haiti and I. The one who travelled to Austria travelled immediately after J.

More than eighty days are between the months in which N and the one who travelled to Chile.

34. How many persons travelled between the one who travelled to Austria and N?

- a) No one
- b) One
- c) Two
- d) Three
- e) Four

35. Who among the following persons travelled two months after I?

- a) No one
- b) L
- c) The one who travelled to Chile
- d) K
- e) The one who travelled to Fiji

36. Which of the following combination is true?

- a) August 25- M-Haiti
- b) May 21-J-Canada
- c) June 17-L-Chile
- d) March 31-N-Fiji
- e) September 12-K-France

37. J travelled in which of the following month?

- a) March
- b) April
- c) July
- d) September
- e) June

38. Statement: Adults should be careful about consuming alcohol in front of children. Children have an impressionable mind and will grow up thinking that consuming alcohol is healthy. Alcohol has known negative health effects and to protect the health and wellbeing of children, adults drinking in front of children should be penalized.

Which of the following assumptions, if true, weakens the given statement ?

- A. Alcohol consumption is harmful, but you cannot stop adults from drinking.
- B. It is not practical to stop adults from drinking in front of children. This means that parents have to go outside the house to drink.
- C. Adults and parents should be educated about their duties.
- D. The act of adults drinking in front of children may be wrong, but they cannot be penalized as this will infringe on their freedom.
- E. none of the above

39. Statement : Donors are almost never offended by being asked for too much (in fact, they are usually flattered.) And if you ask for too much, our donor can always suggest a smaller amount. On the other hand, donors are frequently offended by being asked for too little. A common reaction is, "So, that's all they think I'm worth."

The above statement concludes that ?

- A. donors are usually never asked for enough.
- B. a good fund-raiser will value the worth of the donor.

C. it is worth the gamble to ask for large donations.

D. fund-raisers often think that donors are incapable of giving much.

E. none of the above

40. Statement : In humans, ingested protein is broken down into amino acids, all of which must compete to enter the brain. Subsequent ingestion of sugars leads to the production of insulin, a hormone that breaks down the sugars and also rids the bloodstream of residual amino acids, except for tryptophan. Tryptophan then slips into the brain uncontested and is transformed into the chemical serotonin, increasing the brain's serotonin level. Thus, sugars can play a major role in mood elevation, helping one to feel relaxed and anxiety-free.

Which one of the following is the course of action on which the statement depends?

- A. Elevation of mood and freedom from anxiety require increasing the level of serotonin in the brain.
- B. Failure to consume foods rich in sugars results in anxiety and a lowering of mood
- C. Serotonin can be produced naturally only if tryptophan is present in the bloodstream.
- D. Increasing the level of serotonin in the brain promotes relaxation and freedom from anxiety.
- E. The consumption of protein-rich foods results in anxiety and a lowering of mood.

41. Statement: In a team a leader's role is to provide guidance and time to learn tactful approaches when stating challenges. Leadership also needs to learn to navigate the pitfalls of being challenged. Ego is a huge blind spot for all of us and it can be uncomfortable the first time someone calls us out on an oversight.

Assumption I: The team members always tend to make oversights which are constantly corrected by the leader of that particular team.

Assumption II: Ego is the conditioning of how we observe ourselves from the viewpoint of others.

- A.If only assumption I is implicit.
- B.If only assumption II is implicit.
- C.If either assumption I or assumption II is implicit.
- D.If neither of the assumptions are implicit.
- E.If both the assumptions are implicit.

42. Statement : Forester -- The recent claims that the White rhino is not extinct are false. The White rhino's natural habitat was taken over by deforestation, resulting in the animal's systematic elimination from the area. Since then naturalists working in the region have discovered no hard evidence of its survival, such as carcasses or tracks. In spite of alleged sightings of the animal, the White rhino no longer exists.

Which one of the following is the conclusion on which the forester's statement depends?

- A.Deforestation drove the last White rhinos to starvation by chasing them from their natural habitat.

B.Every naturalist working in the White rhino's natural habitat has looked systematically for evidence of the rhino's survival.

C.The White rhino did not move and adapt to a different region in response to the loss of habitat.

D.Those who have reported sightings of the White rhino are not experienced naturalists or foresters.

E.none of the above

43. Statement I:The government has decided to make all the information related to primary education available to the general public.Primary education is typically the first stage of formal education, coming after preschool and before secondary school.

Statement II:In the past, the general public did not have access to all these information related to primary education.Primary education takes place in primary school, the elementary school or first and middle school depending on the location.

- A.Statement I is the cause and statement II is its effect
- B.Statement II is the cause and statement I is its effect
- C.Both the statements I and II are independent causes
- D.Both the statements I and II are effects of independent causes
- E.Both the statements I and II are effects of some common cause

44. Statements:

I. Despite the fact that the lack of power in schools is taken note of by the Parliamentary Standing Committee which operates its own schemes and sponsors several school education programmes, India has not yet electrified a significant number of government schools.

II. According to data, only 56.45% of government schools had electricity and 56.98% a playground, while almost 40% lacked a boundary wall.

Conclusions:

I. The tardy progress on such important facilities, in spite of the projects having been sanctioned, shows the low priority that school education is being accorded.

II. The government-run school sector needs a fund infusion and a public school system that guarantees universal access, good learning and all facilities has to be among the highest national priorities.

A. Only conclusion I follows

B. Only conclusion II follows

C. Either conclusion I or II follows

D. Neither conclusion I nor conclusion II follows

E. Both conclusions I and conclusion II follow

45) Statement: The violent protests all around the city led to the destruction of many landmark properties and forced the mayor to declare a curfew and grant a meeting to negotiate the demands of the protestors.

Courses of action:

I) The demands of the protestors should be accepted in order to stop the destruction.

II) All the protestors should be arrested and the landmarks should be rebuilt.

III) A law should be passed prohibiting people from protesting.

A. Only I follows.

B. Only III follows.

C. Both I and II follow.

D. None of the above follow.

E. All of the above follow.

Answer Key with Explanation

Directions (1-5):

1) Answer: B

2) Answer: E

3) Answer: C

4) Answer: A

5) Answer: D ((In the given option, the age of all the persons is even, except in option d)

Final arrangement

Assam	Tripura	Manipur
F-18, H-25	C-48, E-35, A-21	G-53, I-64, B-47, D-58

We have,

- G and the one whose age is 64 years are living in the same state.
- Both C and E are living in the same state.
- C neither lives with G nor lives in Manipur.

From the above conditions, there are four possibilities

	Assam	Tripura	Manipur
Case 1	G, 64	C, E	
Case 2	C, E	G, 64	
Case-3		C, E	G, 64
Case-4	C, E		G, 64

Again, we have

- B and the one whose age is 58 years are living in the same state but both of them lives neither in Assam nor in Tripura.
- B's age is 47 years, which is 12 years more than E's age.
- The sum of the ages of A and G is 74 years and the age of A is less than 25 years.
- A lives with neither G nor B.
- A doesn't live in Assam.
- The sum of the ages of B and F is 65 years.
- H lives with F but not with A and the age of H is 7 years more than F.
- The youngest person doesn't live with G.

In case-3 and case-4 there is no possibility to place G's age as 58 years because the sum of ages of A and G is 74 if G's age is 58 then A's age must be 16 years. But it is given that the age of the youngest person is 18 years.

After applying the above conditions case-2 and case -4 get eliminated because A doesn't live in Assam in case 2. And in case-4 less than two persons live in the same state.

	Assam	Tripura	Manipur
Case 1	G, 64	C, E-35, A	B-47, 58, F-18, H-25
Case 2	C, E-35, A	G, 64	B-47, 58
Case-3	F-18, H-25	C, E-35, A	G, 64, B-47, 58
Case-4	C, E-35, H-25,	A	G, 64, B-47, 58

	F-18		
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Again, we have

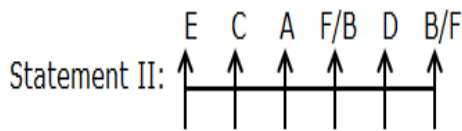
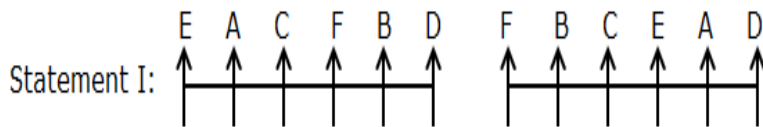
- D doesn't live with H.
- The age of I is 16 years more than C's age.
- C's age is 5 years less than G.

After applying the above conditions case-1 gets eliminated because the sum of the ages of A and G is 74 if G's age is 47 then A's age is 27 which is more than 25, hence case-3 shows the final arrangement.

	Assam	Tripura	Manipur
Case 1	G-47, D-64	C-42, E-35, A-27	B-47, I-58, F-18, H-25
Case-3	F-18, H-25	C-48, E-35, A-21	G-53, I-64, B-47, D-58

6. Answer: D

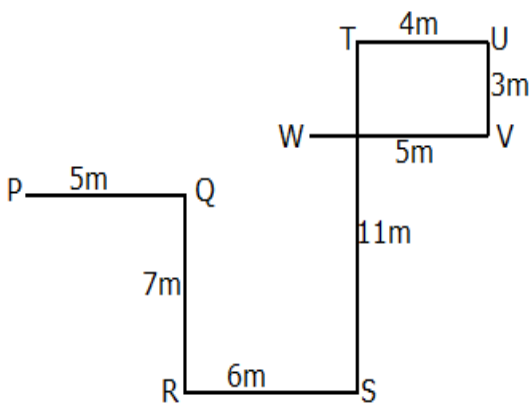
Data in both statements I and II are not sufficient to answer the question.



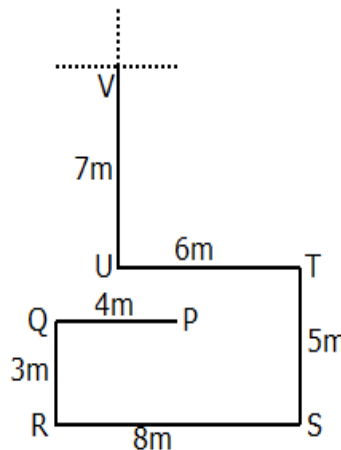
7. Answer: A

Data in statement I alone is sufficient to answer the question.

Statement I:



Statement II:



8. Answer: B

Data in statement II alone is sufficient to answer the question.

Statement I:

Arranged	eb	Students/ Prepared	Well/ yz/uz/ia
School	qm	Getting/up/for	kj/hg/fh
Annual/day	wn/rv	Once/were	os/pd
All	tc		

Statement II:

Headed/work	ty/df	Theme	zn
For	ie	Concert	ow
Important	as	All	pq
Different/ready	gh/jk	Set	tu
Up	mq		

Direction (9-11):

9) Answer: B

10) Answer: D

11) Answer: E

The logic of the coded language is,

The logic for the first code for each word is based on the starting letter of each word,

If a word starts with a vowel then the first code of the word is “#”

If a word starts with a consonant then the first code of the word is “&”

The logic for the second code for each word is based on the number of letters in each word,

If a word has two letters then the second code of the word is “©”

If a word has three letters then the second code of the word is “Ω”

If a word has four letters then the second code of the word is “Π”

If a word has five letters then the second code of the word is “∞”

The logic for the third code for each word is based on the last letter of the each

word,

If the last letter of the word is "T" then the third code of the word is "\$"

If the last letter of the word is "L" then the third code of the word is "%"

If the last letter of the word is "S" then the third code of the word is "!"

If the last letter of the word is "E" then the third code of the word is "Δ"

If the last letter of the word is "N" then the third code of the word is "**"

Directions(12-15):

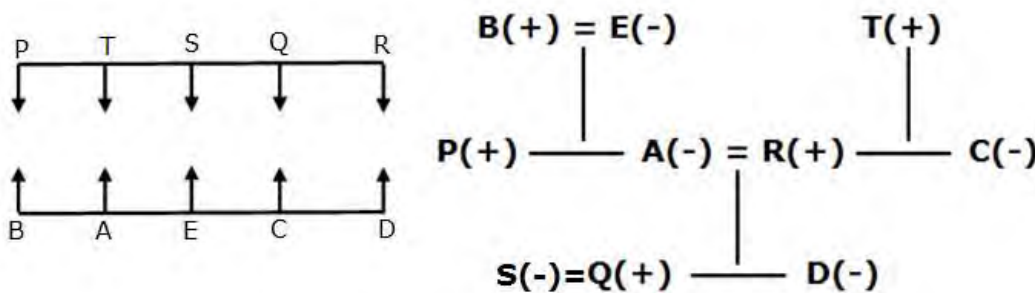
12) Answer: C

13) Answer: E (All the persons are sitting in the corner of the row except "C's nephew")

14) Answer: D

15) Answer: A

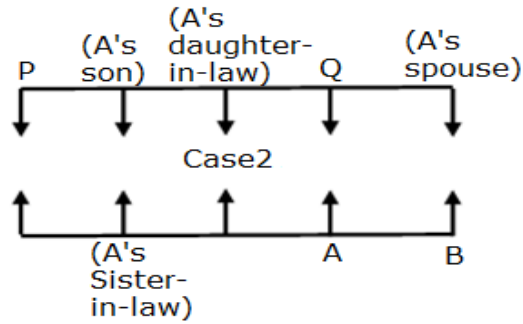
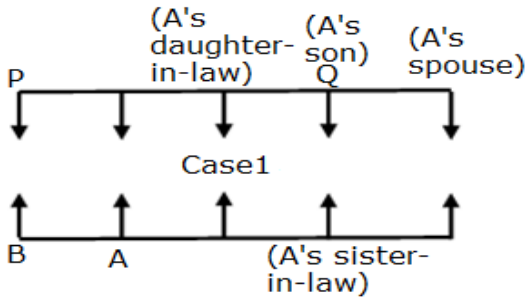
Final arrangement:



We have,

- A sits second from one of the extreme ends of the row.
- Only one person sits between A and the one who faces A's son.
- Only two persons sit between B and A's sister-in-law who doesn't sit at the end of the row.
- B is the spouse of E and has only two children.
- P and C are the unmarried persons in the family.
- Only one of the children of A is married.
- A's only daughter-in-law sits second to the left of the P but doesn't sit at the end of the row.
- Only two persons sit between P and Q who sits to the right of A's spouse.

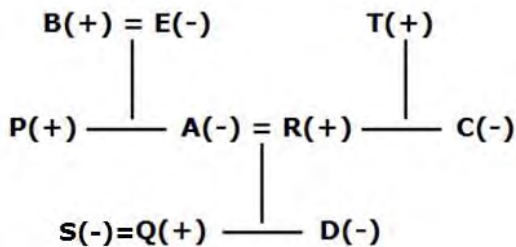
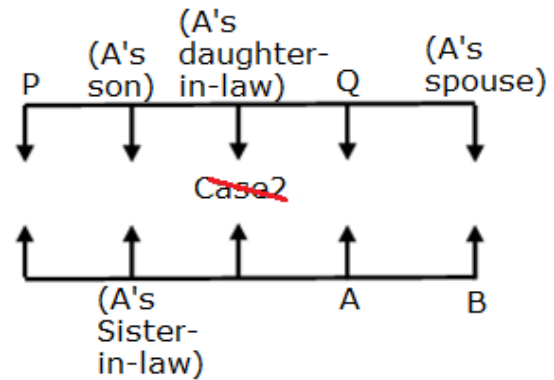
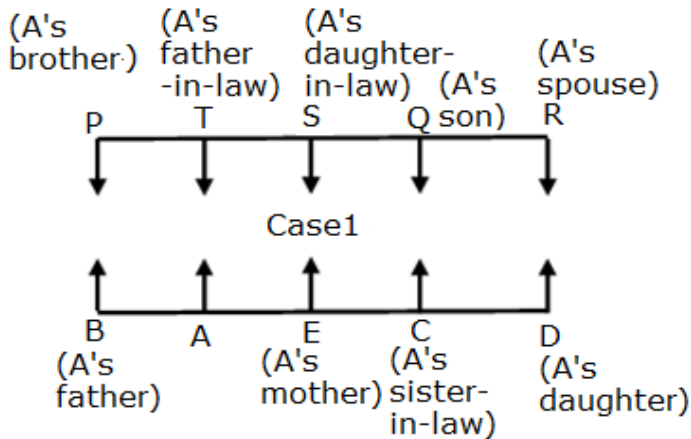
From the above condition, there are two possibilities



Again, we have

- C sits immediate left of the one who faces A's spouse.
- Only one of the children of E is married.
- Only one person sits between the one who faces C and A' father-in-law.
- S sits second to the right of the one who faces A's daughter.
- E doesn't sit at the end of the row.
- Only three persons sit between R and the one who faces A's father.
- P is the only son of A's mother.

From the above condition, Case 2 gets eliminated. Case 1 shows the final arrangement.



Directions (16-19):

16) Answer: D

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17) Answer: E (All the persons are living on an odd numbered floor except the person who teaches Hindi)

18) Answer: C

19) Answer: B

Final arrangement

Floors	Persons	Language
9	F	Assamese
8	C	Bengali
7	H	Gujarati
6	B	Odia
5	A	Sanskrit
4	E	English
3	G	Telugu
2	D	Hindi
1	J	Kannada

We have,

- Only two persons live below G
- Only one person lives between G and the one who teaches Sanskrit
- As many persons live above the one who teaches Sanskrit as below A
- Only two persons live between A and the one who teaches Hindi
- The one who teaches Hindi lives below A.
- Only three persons live between B and the one who teaches Hindi.
- As many persons live above B as below the one who teaches English.

From the above condition, there are two possibilities.

	Case1		Case2	
Floors	Persons	Language	Persons	Language
9	A			
8		English		
7				
6		Hindi	B	
5			A	Sanskrit
4				English

3	G		G	
2	B			Hindi
1		Sanskrit		

Again we have,

- Only two persons live between the one who teaches English and the one who teaches Gujarati.
- The one who teaches Gujarati lives immediately above the one who teaches Odia
- The one who teaches Bengali lives on an even numbered floor.
- The one who teaches Bengali lives immediately below the one who teaches Assamese.
- Only one person lives between the one who teaches Assamese and H.
- H doesn't teach Sanskrit.

	Case1		Case2	
Floors	Persons	Language	Persons	Language
9	A			Assamese
8		English		Bengali
7			H	Gujarati
6		Hindi	B	Odia
5	H	Gujarati	A	Sanskrit
4		Odia		English
3	G	Assamese	G	
2	B	Bengali		Hindi
1		Sanskrit		

Again we have,

- The one who teaches Telugu lives below A but not on the bottommost floor.
- Only four persons live between the one who teaches Telugu and C.
- No one lives between F and C.
- D lives on one of the floors below E but above J.

From the above condition, Case 1 gets eliminated because we cannot place C. Hence Case 2 shows the final arrangement.

	Case1		Case2	
Floors	Persons	Language	Persons	Language

9	A		F	Assamese
8		English	C	Bengali
7		Telugu	H	Gujarati
6		Hindi	B	Odia
5	H	Gujarati	A	Sanskrit
4		Odia	E	English
3	G	Assamese	G	Telugu
2	B	Bengali	D	Hindi
1		Sanskrit	J	Kannada

20) Answer: E

Solution

&	*	@	%	#
>	<	=	>	<

Statements:

$R \geq M = P > Q; T < P \geq S; Y \leq J < M$

Conclusions:

I) $S * R \rightarrow S \leq R \rightarrow (R \geq M = P \geq S)$ True

II) $Q \# Y \rightarrow Q < Y \rightarrow (Q < P = M > J \geq Y)$ False

III) $T \% J \rightarrow T > J \rightarrow (T < P = M > J)$ False

IV) $R \& T \rightarrow R \geq T \rightarrow (R \geq M = P > T)$ False

So, Answer is Only conclusion I is true

21) Answer: D

Solution:

&	*	@	%	#
>	<	=	>	<

Statements:

$K > C \leq B < L; A \geq Z = B; C > Q \leq H$

Conclusions:

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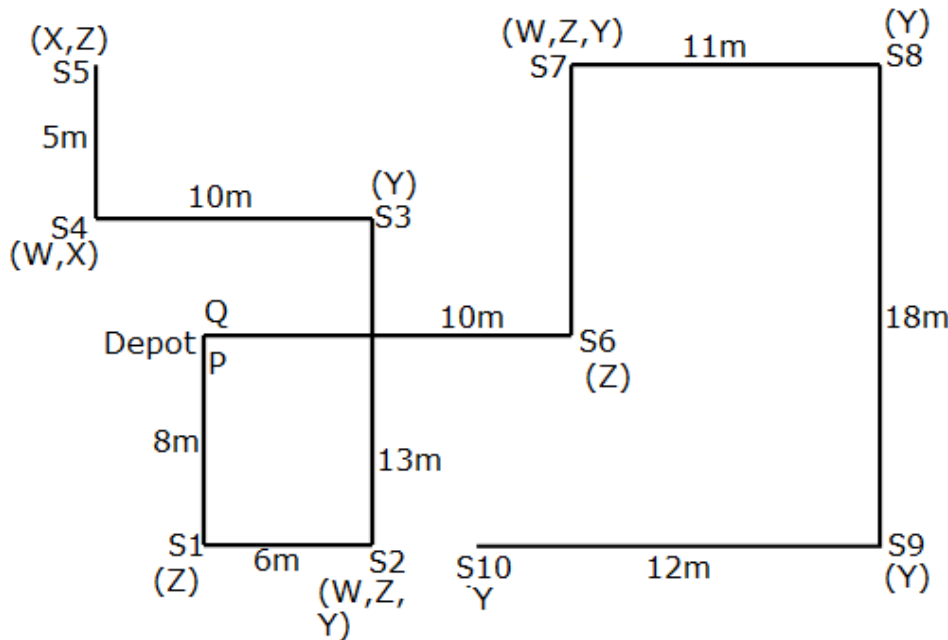
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- I) $A @ C \rightarrow A = C \rightarrow (A \geq Z = B \geq C)$ False
- II) $L \% H \rightarrow L > H \rightarrow (L > B \geq C > Q \leq H)$ False
- III) $C \# A \rightarrow C < A \rightarrow (C \leq B = Z \leq A)$ False
- IV) $A \% K \rightarrow A > K \rightarrow (A \geq Z = B \geq C < K)$ False

By combining conclusions, I and III, **either conclusion I or III is true**

Directions (22-24):

- 22) Answer: C
- 23) Answer: E
- 24) Answer: A



Directions (25-28):

- 25) Answer: E
- 26) Answer: C (First person is immediately senior to the second person in all options except c)
- 27) Answer: B
- 28) Answer: D

Final arrangement

Designation	Person
Executive director (ED)	S
Deputy General Manager (DGM)	FL

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Assistant General Manager (AGM)	VOG
Manager	NEQH
Assistant Manager (AM)	WRMPU
Clerk	YCIBXZ

DEPARTMENT	HEAD	PERSONS
Marketing	F	HCB
Legal	L	VOWRPU
HR	S	GNEQMYIXZ

We have,

- N is senior to Assistant Manager.
- Both E and Q are working with N.
- The number of designations higher than Q is the same as the number of designations lower than V.
- F is senior to V.

From the above conditions, there are four possibilities

	Case-1	Case-2	Case-1a	Case-2a
Designation	Person	Person	Person	Person
Executive director (ED)			F	F
Deputy General Manager (DGM)	F	F		
Assistant General Manager (AGM)	V	NEQ	V	NEQ
Manager	NEQ	V	NEQ	V
Assistant Manager (AM)				
Clerk				

Again we have,

- Even numbers of persons are working in H's designation.
- U is senior to I but junior to H.
- Both U and R are working in the same designation.
- R doesn't work with V.
- YCZ are working in the same designation.

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- M is immediately senior to C and is not working with H.
- As many persons senior to B as junior to O.
- P is immediately senior to B.
- G is senior to M but junior to S.
- Odd numbers of persons are working in G's designation.
- W is senior to X but junior to L.
- L does not work as a Manager
- S is not Deputy General Manager.

After applying the above conditions case-2, Case-1a and case-2a get eliminated, hence case-1 shows the final arrangement.

	Case-1	Case-2	Case-1a	Case-2a
Designation	Person	Person	Person	Person
Executive director (ED)	S	S	F	F
Deputy General Manager (DGM)	FL	FH	HS	G
Assistant General Manager (AGM)	VOG	NEQ	VOL	NEQ
Manager	NEQH	VG	NEQG	V
Assistant Manager (AM)	URWMP	URM	URMW	URM
Clerk	IYCZBX	IYCZB	IYCZB	IYCZ

All the persons except the persons senior to Assistant General Manager (AGM) are transferred to three department viz. Marketing, Legal and HR as per the following conditions:

I. The persons whose name starts with the letter which comes before "M" and also works with the persons whose name starts with a vowel which comes before "M" as per alphabetical order are transferred to marketing department.

From the above condition the persons whose name starts with the letter which comes before "M" and also works with the persons whose name starts with a vowel which comes before "M" as per alphabetical order are **H, C and B** are transferred to Marketing department.

II. The persons whose name starts with the letter which comes after "M" and also even number of persons works along with the person whose name starts with the letter which comes after "M" as per alphabetical series are transferred to Legal department.

From the above condition the persons whose name starts with the letter which comes after “M” and also even number of persons work along with the person whose name starts with the letter which comes after “M” as per alphabetical series are V, O, W, R, P and U are transferred to Legal department.

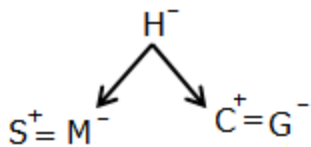
The remaining persons G, N, E, Q, M, Y, I, X and Z are transferred to HR department.

S is the executive director and F and L are Deputy General Manager (DGM)

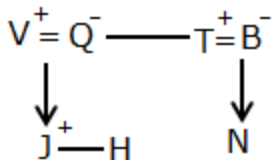
S is the head for HR department and F and L is assigned to the head of the Marketing and legal department as per alphabetical series respectively.

DEPARTMENT	HEAD	PERSONS
Marketing	F	HCB
Legal	L	VOWRPU
HR	S	GNEQMYIXZ

29) Answer: D



30) Answer: C



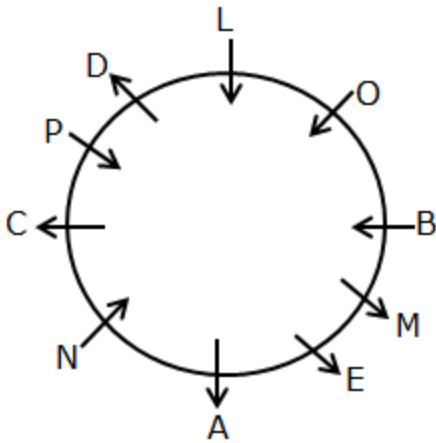
Directions (31-33):

31) Answer: D

32) Answer: E

33) Answer: C (In the given options, all the persons are facing away from the centre, except option c)

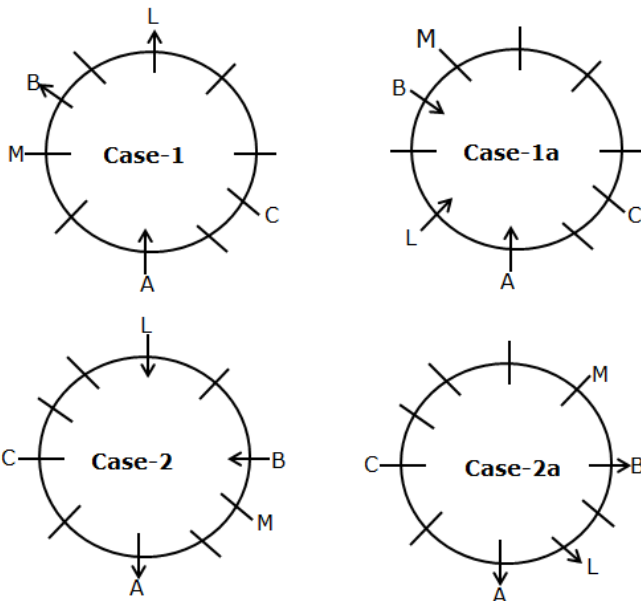
Final arrangement



We have,

- C sits second to the right of A.
- Three persons sit between C and M.
- C sits third to the right of L, who sits second to the right of B.

From the above conditions, there are four possibilities



Again, we have

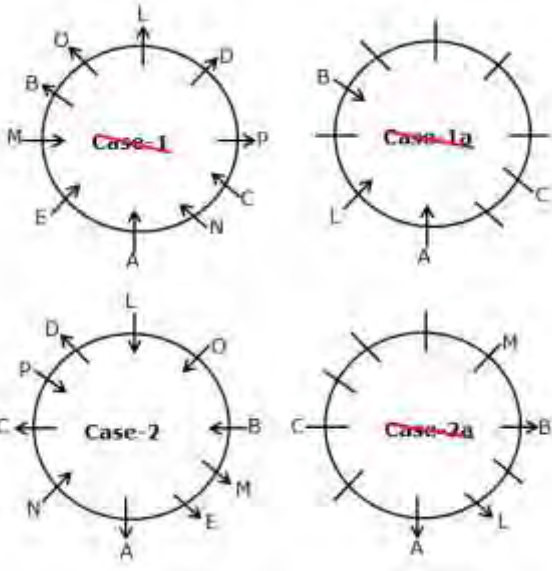
- Both D and P are immediate neighbours.
- D faces away from the centre.
- Both P and L are facing the same direction.
- N sits second to the right of E.
- Immediate neighbours of E are facing the same direction.
- Both P and A are facing the opposite direction.
- Immediate neighbours of B are facing the opposite direction.

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- N faces the same direction as O.

After applying the above conditions case-1, case-1a and case-2a gets eliminated because in (case-1) N and O face the opposite direction and in (case-1a) and (case-2a) if P and L are facing the same direction then A also facing the same direction but P and A faces opposite direction, hence case-2 shows the final arrangement.



Directions (34-37)

- 34. Answer: C
- 35. Answer: A
- 36. Answer: D
- 37. Answer: E

Final arrangement:

Month with date	Persons	Country
March 31	N	Fiji
May 23	I	France
June 8	J	Canada
June 17	L	Austria
August 25	M	Chile
September 13	K	Haiti

We have,

- L travelled on 17th of the month which has an even number of days but before august.

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- Twenty-four days are there between L and the one who travelled to France, who not travelled in March.
- M travelled three months after the one who travelled to France.
- M travelled on 25th of the month.

From above conditions, we have four possibilities:

Case 1			Case 2		
Month with date	Persons	Country	Month with date	Persons	Country
January 23		France	April 17	L	
Feb 17	L		May 12		France
April 25	M		August 25	M	

Case 3			Case 3.a		
Month with date	Persons	Country	Month with date	Persons	Country
June 17	L		May 23		France
July 12		France	June 17	L	
October 25	M		August 25	M	

Again we have,

- K travelled nineteen days after M.
- The one who travelled to Canada travelled on 8th of the month and three months before K.
- Only two months are there between the one who travelled to Canada and Fiji, who travelled on 31st of the month.

Case 1			Case 2		
Month with date	Persons	Country	Month with date	Persons	Country
January 23		France	March 31		Fiji
Feb 8		Canada	April 17	L	
Feb 17	L		May 12		France
April 25	M		June 8		Canada
May 14	K		August 25	M	
May 31		Fiji	Sep 13	K	

Case 3			Case 3.a		
Month with date	Persons	Country	Month with date	Persons	Country
May 31		Fiji	March 31		Fiji
June 17	L		May 23		France
July 12		France	June 8		Canada
August 8		Canada	June 17	L	
October 25	M		August 25	M	
Nov 13	K		Sep 13	K	

Again we have,

- Only three months are there between the one who travelled to Haiti and I.
- The one who travelled to Austria travelled immediately after J.
- More than eighty days are between the months in which N and the one who travelled to Chile.

While applying the above conditions, case 1, 2 and 3 gets eliminated, because less than 80 days are there between N and the one who travelled to Chile. Thus, case 3.a gives the final arrangement.

Case 1			Case 2		
Month with date	Persons	Country	Month with date	Persons	Country
January 23	I	France	March 31		Fiji
Feb 8	J	Canada	April 17	L	
Feb 17	L	Austria	May 12	I	France
April 25	M	Chile	June 8		Canada
May 14	K	Haiti	August 25	M	
May 31	N	Fiji	Sep 13	K	Haiti

Case 3			Case 3.a		
Month with date	Persons	Country	Month with date	Persons	Country
May 31		Fiji	March 31	N	Fiji
June 17	L		May 23	I	France
July 12	I	France	June 8	J	Canada

August 8		Canada	June 17	L	Austria
October 25	M		August 25	M	Chile
Nov 13	K	Haiti	Sep 13	K	Haiti

38. Answer: D

a, b and c do not address the statement and do not weaken it. D weakens it.

39. Answer: C

The conclusion is that potential donor will be flattered by requests for large donations and frequently offended by requests for small amounts. Therefore, it is worth the gamble to start high. At worse, the potential donor may decrease his request. Alternatives (a), (b) and (d) are not conclusion made in the statement.

40. Answer: D

This is the correct answer. The author states that after the action of the sugars, more serotonin enters the brain. The author then concludes that this leads to a mood elevation. Thus, we can conclude a course of action based on the fact in the statement that serotonin has an effect on the mood level.

41. Answer: D

If neither of the assumptions is implicit.

Assumption I: The given assumption may be a case but the word 'always' makes it definite so it cannot be an implicit assumption.

Assumptions II: Irrelevant to what's given in the statement

42. Answer: C

If this point was not true and the White rhinos have shifted to another location, then the conclusion will not hold good. However, if this point was actually true, it would clear any confusion and provide evidence for the foresters' view.

43. Answer: B

Statement II is the cause and statement I is its effect. The government must have seen the unawareness of the people as a strong factor in the primary education programme being not successful. The step indicated in I must, thus, have been sought for as a remedy for the same.

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44. Answer: E

According to the statements, it is understood that the centre and state governments are not giving enough priority in developing the education system of government-run schools. They need fund infusion and all the facilities to be provided to government-run schools have to be among the highest national priorities. Therefore, both the conclusions follow.

45. Answer: D

The demands of the protestors are not mentioned in the statement, therefore course of action I and II cannot be determined to be the actions for pursuing. Passing a law that will prohibit people from protesting is inappropriate because the public has the right to express their demand, it does not specify violent protests; therefore course of action III also does not follow. Hence, Option d is the correct answer.

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Course

Prelims Scoring Part

- **Why should we focus more on miscellaneous questions rather than seating arrangement and puzzles?**

Seating arrangement and puzzles are the time-consuming topics. One should take **less time** to solve the miscellaneous questions. So that we can get some more time to solve seating arrangement and puzzles accurately. This is possible only if we frequently practice the miscellaneous questions. In our **prelims Scoring part**, You can practice a wide range of miscellaneous topics for your **speed improvement**.

Sample Questions for Prelims Scoring Part

Directions (1-10): Study the following statements and then decide which of the given conclusions logically follow from the given statements disregarding the commonly known facts.

1. Statements:

Only a few purses are bag

All boxes are purse

At least some bags are Kit

No Kit is Pack

Conclusions:

I). Some boxes are Bag

II). All bags can never be Pac

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- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

2. Statements:

Only a few NRIs are NRO

All NROs are NRE

Some NREs are PIO

Conclusions:

I). **Some NREs are not NRI**

II). **Some NROs are PIO**

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

3. Statements:

Only a few festivals are fest

No fest is exhibition

All festivals are Carnival

Conclusions:

I). **Some festivals are not exhibition**

II). **Some fests are carnival**

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

4. Statements:

Only a few products are result

Some results are conclusion

All conclusions are success

Conclusions:

I). **All results can be success**

II). **Some conclusions are not product**

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

5. Statements:

Only a few satellites are rocket

All rockets are Missile

No Missile is Jet

Conclusions:

I). **Some rockets are Missile**

II). **No rocket is jet**

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

6. Statements:

Some Repo rate is Bank rate.

Only a few MCLR is CRR.

All SLR is Repo rate.

No Bank rate is MCLR.

Conclusions:

I). **Some CRR is not SLR.**

II). **All Repo rate can be MCLR.**

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

7. Statements:

No ATM is Deposit.
Only Asset is Liability.
Some Deposits are Asset.
All Cheques are ATM.

Conclusions:

- I). No Cheque is Deposit.
- II). Some Liability can be ATM.

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

8. Statements:

All Accounts are Demat.
Some Savings are Interest.
Only a few Demats are Trade.
No Interest is Account.

Conclusions:

- I). Some Accounts are not Trade.
- II). Some Savings are not Demat.

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

9. Statements:

Some NEFT is IMPS.
Only a few UPI is RTGS.
All IMPS is UPI.
Only NEFT is Reliable.

Conclusions:

- I). No RTGS is NEFT.
- II). Some NEFT is RTGS.

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

10. Statements:

No Paytm is Phonepe.
Only a few Paytm is Gpay.
All Phonepe is Wallet.
Some Gpay is Payment.

Conclusions:

- I). All Wallets can never be Paytm.
- II). All Payment can be Phonepe.

- A. Only Conclusion I follow
- B. Either Conclusion I or II follows
- C. Only Conclusion II follows
- D. Both Conclusions I and II follow
- E. Neither Conclusion I nor II follows

Directions (11-20): In the given questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

11. Statement:

$$X > T \leq U < V = H > P \geq S$$

Conclusions:

I). $H > T$

II). $S < V$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

12. Statements:

$$P \leq X \leq T; B \geq T \geq V; X \leq U < Y$$

Conclusions:

I). $X \leq B$

II). $Y \geq P$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

13. Statements:

$$W = K > Z; A \leq K < T; P \geq T > Q$$

Conclusions:

I). $K \leq P$

II). $W \geq A$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

14. Statements:

$$H > M \leq N; O \geq M \geq V; K = V < G$$

Conclusions:

I). $O > K$

II). $O = K$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

15. Statements:

$$E < V \leq K; Q = V > X; P \geq Q > S$$

Conclusions:

I). $K \geq X$

II). $P = V$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

16. Statements:

$$A \leq B < C \leq D; E > F = G \geq C; I \geq J \geq G$$

Conclusions:

I). $B < I$

II). $E > A$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

17. Statements:

$J = K < L \leq M; U > P \geq N > L; I \leq K < Q$

Conclusions:

I). $U > M$

II). $I < P$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

18. Statements:

$E \leq G < I \leq K; M = N > I \geq P; Q \leq R \leq G$

Conclusions:

I). $Q < K$

II). $M \geq E$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

19. Statements:

$R > U \leq T \leq Y; X \geq Y = Z \geq V; S \leq U \geq M \leq W$

Conclusions:

I). $X \geq R$

II). $W \leq V$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

20. Statements:

$G \geq H > I = K < L; N > P \geq H \leq Q$

Conclusions:

I). $N > L$

II). $L \geq N$

- A. Only I is true
- B. Both I and II are true
- C. Neither I nor II is true
- D. Only II is true
- E. Either I or II is true

Directions (21-25): Study the following statements and then decide which of the given conclusions logically follow from the given statements disregarding the commonly known facts.

21. Statements:

Only a few Profits are Loss.

No Cost price is Selling price.

All Losses are Discount.

Some Selling prices are Profit.

Conclusions:

I). Some Cost prices are not Profit.

II). Some Discounts are Profit.

- A. Only I follows
- B. Only II follows
- C. Both I and II follow
- D. Either I or II follows
- E. Neither I nor II follows

22. Statements:

All Investments are Interest.

Some SI are CI.

Only a few Interests are SI.

No CI is Amount.

Conclusions:

I). Some SI may not be Amount.

II). No Interest is CI.

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Either I or II follows

E. Neither I nor II follows

23. Statements:

Only Boats are Stream.

Only a few Downstreams are Upstream.

All Speeds are Boats.

No Speed is Downstream.

Conclusions:

I). Some Streams are Upstream.

II). No Upstream is Stream.

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Either I or II follows

E. Neither I nor II follows

24. Statements:

No Reasoning is Aptitude.

Some English is not Reasoning.

Some Aptitude is Difficult.

All Reasoning is Easy.

Conclusions:

I). No English can be Reasoning.

II). Some Easy is not Aptitude.

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Either I or II follows

E. Neither I nor II follows

25. Statements:

Some SBI is IBPS.

No RRB is SBI.

All TNPSC is TNEB.

Only a few IBPS is TNPSC.

Conclusions:

I). Some TNEB is not IBPS.

II). Some RRB can be TNPSC.

A. Only I follows

B. Only II follows

C. Both I and II follow

D. Either I or II follows

E. Neither I nor II follows

Directions (26-30): Study the following information carefully and answer the questions given below.

In a certain code language,

“Encourage Society Mask Blood” is written as “saf qes rty wlr”

“Half Race Protect Society” is written as “zxc sei saf wer”

“Force Blood Half” is written as “wer nbm rty”

“System Encourage Blood Control” is written as “qes rty sld ajn”

26. Which of the following word denotes the code “rty” in the given code language?

A. Encourage

- B. Half
- C. Control
- D. Blood
- E. Can't be determined

27. What is the code for the word "Half" in the given code language?

- A. nbm
- B. wer
- C. zxc
- D. saf
- E. Can't be determined

28. What is the code for the phrase "System Race" in the given code language, if the code for "Society Control" is "sld saf"?

- A. Sei ajn
- B. sei nbm
- C. ajn zxc
- D. rty ajn
- E. Can't be determined

29. Which of the following word denotes the code "wlr" in the given code language?

- A. Blood
- B. Encourage
- C. Mask
- D. Society
- E. Can't be determined

30. What is the code for the word "Force" in the given code language?

- A. wer

- B. rty
- C. nbm
- D. sei
- E. Cannot be determined

Directions (31-35): Study the following information carefully and answer the questions below.

327 491 785 298 536

31. If all the digits are arranged in descending order within the number from left to right, then which of the following is the second highest number?

- A. 491
- B. 298
- C. 785
- D. 536
- E. 327

32. If 1 is subtracted from all the digits of the given numbers, then which of the following is the smallest number?

- A. 327
- B. 536
- C. 298
- D. 785
- E. 491

33. If the third digit of the second lowest number is multiplied with the second digit of the second highest number, then what is the resultant?

- A. 12

- B. 18
- C. 21
- D. 15
- E. 20

34. If the 2nd and 3rd digits of every odd number and 1st and 3rd digits of every even number are interchanged, then what is the sum of the 2nd highest and the 2nd lowest numbers thus formed?

- A. 1171
- B. 1173
- C. 1176
- D. 1177
- E. 1175

35. If all the digits within the number are arranged in ascending order from left to right, then how many numbers will get divisible by 2?

- A. None
- B. Two
- C. One
- D. Three
- E. More than three

Directions (36-40): Study the following information carefully and answer the questions given below.

G @ K 1 # L I 4 P W ! E 2 U \$ J S 5 % A 9 N & M
? O 7 C ^ 8 B 6 V *

36. How many meaningful words can be formed using first three letters from both ends (Using each letter only once)?

- A. Seven
- B. Five
- C. None
- D. Four
- E. Six

37. If the last twenty elements are reversed in the given series, then which of the following element is twenty-fifth from the left end?

- A. 9
- B. A
- C. N
- D. ?
- E. M

38. How many consonants are immediately followed by a symbol in the given series?

- A. Seven
- B. Five
- C. Three
- D. Four
- E. Six

39. What is the sum of the numbers which are immediately followed by the symbols?

- A. 5
- B. 6
- C. 4
- D. 3
- E. None of the above

40. Which among the following element is sixth to the left of the fourth symbol from the right end in the given series?

A. 4

B. ?

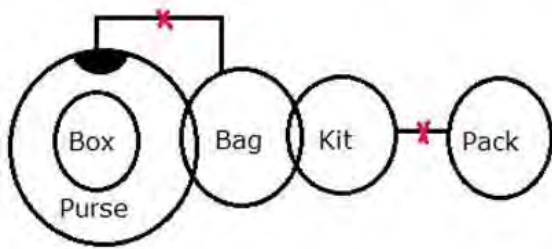
C. S

D. #

E. 5

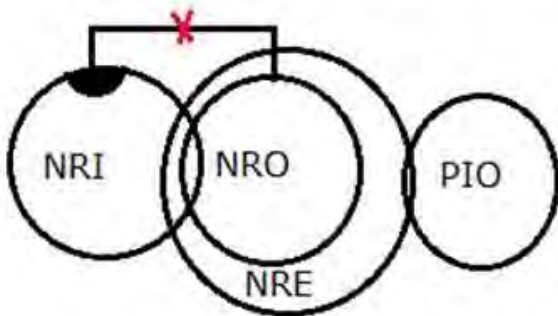
Answer Key with Explanation

1. Answer: C



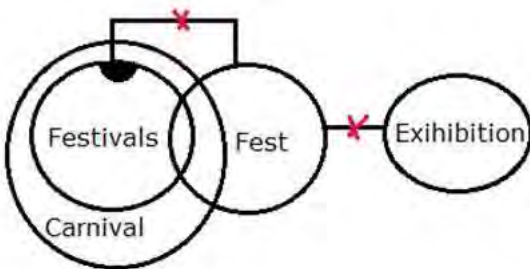
Hence, option c is correct

2. Answer: E



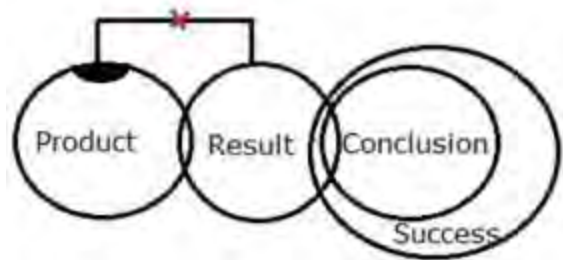
Hence, option e is correct

3. Answer: D



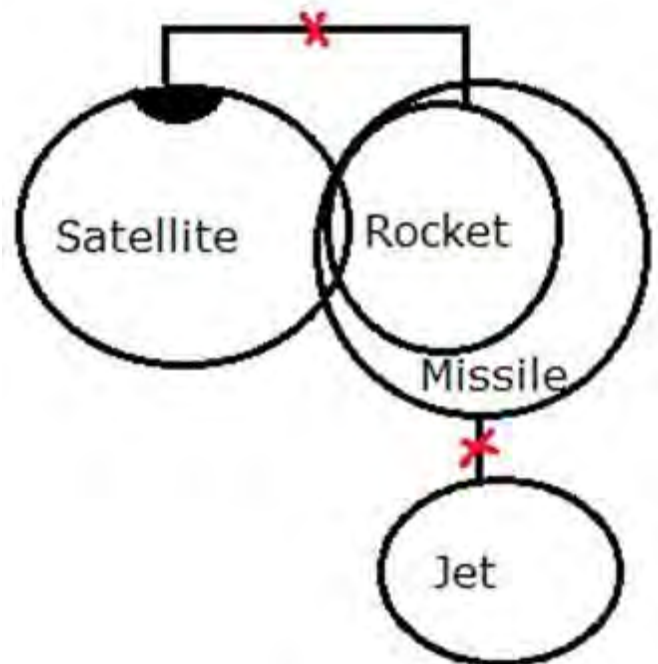
Hence, option d is correct

4. Answer: A



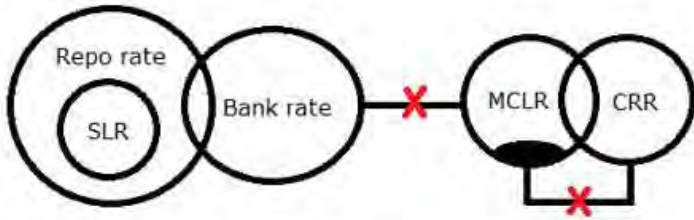
Hence, option a is correct

5. Answer: D

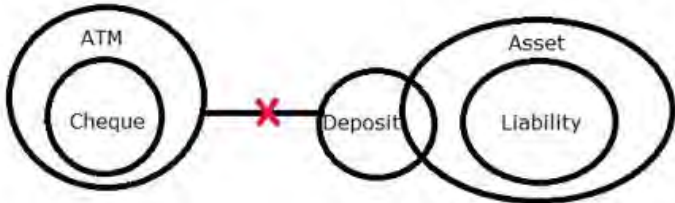


Hence, option d is correct

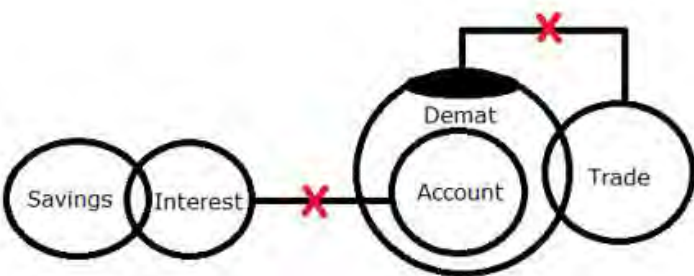
6. Answer: E



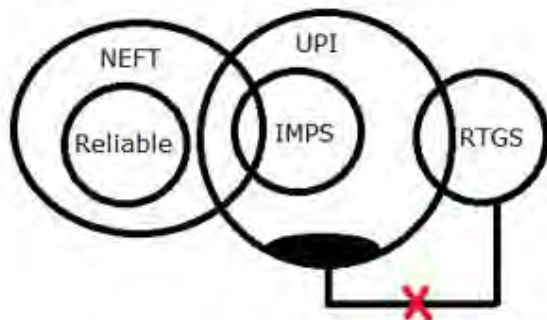
7. Answer: A



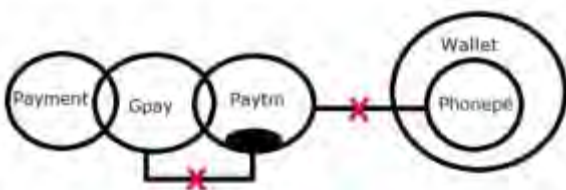
8. Answer: E



9. Answer: D



10. Answer: C



11. Answer: B

$$X > T \leq U < V = H > P \geq S$$

Conclusions:

I. $H > T$: True (As $H = V > U \geq T$)

II. $S < V$: True (As $V = H > P \geq S$)

12. Answer: A

$$P \leq X \leq T; B \geq T \geq V; X \leq U < Y$$

Conclusions:

I. $X \leq B$: True (As $B \geq T \geq X$)

II. $Y \geq P$: False (As $Y > U \geq X \geq P$)

13. Answer: D

$$W = K > Z; A \leq K < T; P \geq T > Q$$

Conclusions:

I. $K \leq P$: False (As $K < T \leq P$)

II. $W \geq A$: True (As $W = K \geq A$)

14. Answer: E

$$H > M \leq N; O \geq M \geq V; K = V < G$$

Conclusions:

I. $O > K$: False (As $O \geq M \geq V = K$)

II. $O = K$: False (As $O \geq M \geq V = K$)

15. Answer: C

$$E < V \leq K; Q = V > X; P \geq Q > S$$

Conclusions:

I. $K \geq X$: False (As $K \geq V > X$)

II. $P = V$: False (As $P \geq Q = V$)

16. Answer: C

I). $R \geq L$ ($R \geq K < Q \geq P < L$) \rightarrow True

II). $O > L$ ($O \geq Q \geq P < L$) \rightarrow True

17. Answer: B

- I). $U > M (U > P \geq N > L \leq M) \rightarrow$ False
- II). $I < P (I \leq K < L < N \leq P) \rightarrow$ True

18. Answer: A

- I). $Q < K (Q \leq R \leq G < I \leq K) \rightarrow$ True
- II). $M \geq E (M = N > I > G \geq E) \rightarrow$ False

19. Answer: E

- I). $X \geq R (X \geq Y \geq T \geq U < R) \rightarrow$ False
- II). $W \leq V (W \leq M \leq U \leq T \leq Y = Z \geq V) \rightarrow$ False

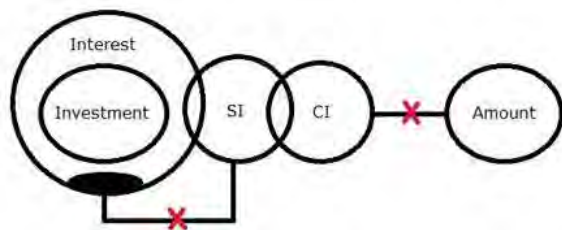
20. Answer: D

- I). $N > L (N > P \geq H > I = K < L) \rightarrow$ False
 - II). $L \geq N (N > P \geq H > I = K < L) \rightarrow$ False
- Combining both, either conclusion I or II is true.

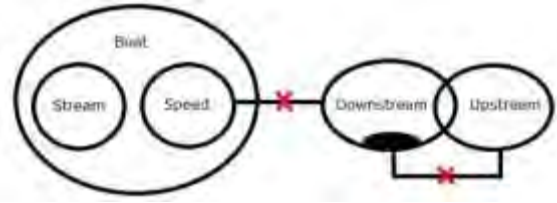
21. Answer: B



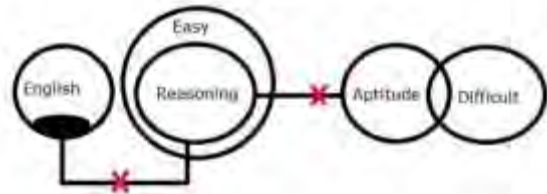
22. Answer: E



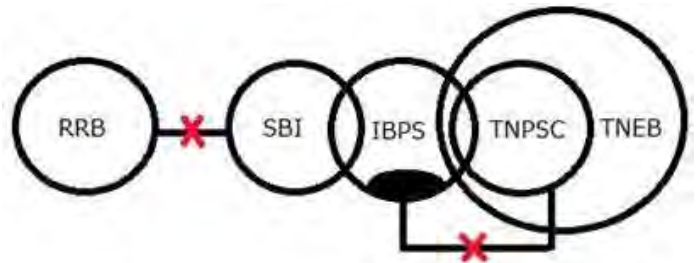
23. Answer: B



24. Answer: C



25. Answer: B



Directions (26-30):

Words	Codes
Encourage	qes
Society	saf
Mask	wlr
Blood	rty
Half	wer
Race/Protect	zxc/sei
Force	nbm
System/Control	sld/ajm

26. Answer: D

27. Answer: B

28. Answer: E

29. Answer: C

30. Answer: C

31. Answer: A

732 941 875 982 653

32. Answer: C

216 380 674 187 425

33. Answer: C

327 , 536
 $7 \times 3 = 21$

34. Answer: D

372 419 758 892 635
 ↘+↙
 1177

35. Answer: B

327 491 785 298 536
237 149 578 289 356

36. Answer: C

Letters are G K L V B C
No word can be formed

37. Answer: E

G @ K 1 # L I 4 P W ! E 2 U \$ J S 5 % A 9 N & M
? O 7 C ^ 8 B 6 V *
G @ K 1 # L I 4 P W ! E 2 U * V 6 B 8 ^ C 7 O
? M & N 9 A % 5 S J \$

38. Answer: E

G @ K 1 # L I 4 P W ! E 2 U \$ J S 5 % A 9 N &
M ? O 7 C ^ 8 B 6 V *

39. Answer: B

Given series
G @ K 1 # L I 4 P W ! E 2 U \$ J S 5 % A 9 N & M
? O 7 C ^ 8 B 6 V *
 $5+1 = 6$

40. Answer: C

Given series
G @ K 1 # L I 4 P W ! E 2 U \$ J S 5 % A 9 N &
M ? O 7 C ^ 8 B 6 V *

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Sample Questions For Mains Booster

Directions (1-4): Study the following information carefully and answer the below questions

21 persons are working in a company in different designations- Chairman, Director, Manager, Assistant manager, Clerk and Peon, where Chairman is the senior most and Peon is the junior most designation.

Note: The number of persons working in each designation is one more than the number of persons working in their immediate higher designation. If A works with B, then both are working in the same designation.

Even number of persons is senior to D. Odd number of persons working in Z's designation. T is senior to Z and is not working with D. The number of persons senior to T is same as the number of persons working in N's designation.

Even number of persons working in T's designation. P, B and K are working in the same designation. The number of persons senior to K is one more than the number of persons working in M's designation. M neither works with Z nor with T. U is immediately senior to A but junior to L and R, who is working senior to Assistant manager. O is senior to R. Odd number of

persons working in L's designation. U doesn't work with D. Even number of persons working in I's designation. S works with Q but not with I. F is junior to Q. C, V and Y are working in the same designation. W is Junior to S.

1) U works in which of the following designation?

- A. Peon
- B. Chairman
- C. Clerk
- D. Assistant Manager
- E. Director

2) Who among the following pair of persons work as a Clerk?

- A.MU
- B.DB
- C.YW
- D.AZ
- E.SD

3) If the salary of the manager is Rs. 40000 per head and the difference between the salary of all the managers and the salary of all the Assistant Managers is Rs. 40000, then what is the salary of the Assistant Manager (per head)?

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- A.80000
- B.20000
- C.150000
- D.40000
- E.30000

4) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

- A.VY
- B.UK
- C.MQ
- D.OT
- E.RC

Direction (5-8): Study the following information carefully and answer the below questions

Nine persons- I, J, K, L, M, N, O, P and Q were born in different years. The ages of each person are calculated from the base year 2021.

Note: If it is given that A's age is equal to the last two digits of the birth year of B, then the age of A will be in any sequence. For example: If B is born in 1995, A's age is equal to the last two digits of the birth year of B, then the age of A may be either 59 or 95 years. None of the persons was born before 1960 and after 2005.

The age of I is 46 years. Only one person was born between I and P. P is two years younger than L. The age of L is the last two digits of the birth year of the one who is the second-youngest person. The age difference between K and I is

20 years. Only one person is younger than K. The number of persons born before P is the same as the number of persons born after K. M was born adjacent to K. The age difference between L and the one who is the second eldest person is the same as the age difference between I and Q where I and Q were born adjacent to each other. N is elder than O but younger than I. The age of O is the last two digits of the birth year of Q. The age difference between I and K is the same as the age difference between O and J. The age of N is the last two digits of the birth year of J. The age difference between M and K is twice the age difference between N and O.

5)What is the sum of the ages of N and J?

- A. 58
- B. 57
- C. 66
- D. 68
- E. 74

6) How many persons are younger than the one who was born in 1984?

- A. Four
- B. Five
- C. Three
- D. Two
- E. No one

7) Q was born in which of the following year?

- A. 1964
- B. 1962

- C. 1966
- D. 1973
- E. 1975

8) What is the age difference between P and M?

- A. 25
- B. 28
- C. 35
- D. 16
- E. 10

Directions (9-10): Below questions consist of two columns. Some statements are given in both columns. Study the following information carefully and decide which of the combination of statements is sufficient to answer the question.

9) What is the code for the word "More" in the given coded language?

	Column I		Column II
C	"Power makes more strength" is coded as "hj po fd we" and "Unity always makes lead" is coded as "rt lk po qw"	X	"She makes cake" is coded as "yw po sa" and "More market value" is coded as "cl er ij"
D	"Unity fact academy course" is coded as "qw gh vb ui" and "Real fact more academy" is coded as "gh wx ab vb"	Y	"Unity is strength" is coded as "qw hj ob" and "Her strength power" is coded as "df hj fd"
E	"Data related more market" is coded as "qa fh cl er" and "Fact course makes" is coded as "qh ui po"	Z	"Her real belief fact" is coded as "gh yu wx df" and "academy belief course" is coded as "vb yu ui"

- A. Only EZ
- B. Only DY
- C. Both CY and DZ
- D. Both CZ and DY
- E. Only DZ

10) What is the code for the phrase "Forest security" in the given coded language?

	Column I		Column II
C	"Volcanic eruption water" is coded as "bn zx po" and "Forest level security" is coded as "lk df ab"	X	"Mountain view nature" is coded as "ty pl rt" and "Forest eruption lead" is coded as "lk zx ew"
D	"Security matters scarcity" is coded as "xc zs mn" and "Rise eruption view" is coded as "fg zx pl"	Y	"Rise in water security" is coded as "vb fg xc er" and "Mountain forest rise" is coded as "tu fg cv"
E	"Mountain water level" is coded as "er tu df" and "Security level rise port" is coded as "ab fg df xc"	Z	"View nature water" is coded as "pl rt er" and "Forest main lead" is coded as "lk gh zm"

- A. Only DZ
- B. Both DY and EX
- C. Only CZ
- D. Only EY
- E. Both DZ and CY

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Answer Key with Explanation

Directions (1-4):

- 1) Answer: D
- 2) Answer: E
- 3) Answer: B
- 4) Answer: E (In the given option, pair of persons are working at the same designation, except in option e)

Final arrangement:

Designations	Chairman	Director	Manager	AM	Clerk	Peon
Persons	N	TO	ZRL	BPKU	DMASQ	IFCVYW

We have,

- Even number of persons is senior to D.
- Odd number of persons working in Z's designation.
- T is senior to Z and is not working with D.
- The number of persons senior to T is same as the number of persons working in N's designation.
- Even number of persons working in T's designation.

From the above conditions, there are five possibilities

The number of persons working in each designation is one more than the number of persons working at the immediate higher designation.

There are totally 21 persons, from the above note, only one person works as the chairman and the chairman is the immediate higher designation of the director so one more person works as director i.e. two persons and the same condition follows till peon.

Chairman-1, Director-2, Manager-3, AM-4, Clerk-5 and Peon-6

Designations	Chairman	Director	Manager	AM	Clerk	Peon
Case-1	N	T	Z	D		
Case-2	N	T	Z		D	
Case-3				T	DZ	N
Case-4	N	T		D	Z	
Case-5	N	T			DZ	

Again we have,

- P, B and K are working in the same designation.

- The number of persons senior to K is one more than the number of persons working in M's designation.
- M neither works with Z nor with T.
- U is immediately senior to A but junior to L and R, who is working senior to Assistant manager.
- O is senior to R.
- Odd number of persons working in L's designation.
- U doesn't work with D.

After applying the above conditions case-3, case-4 and case-5 gets eliminated

Designations	Chairman	Director	Manager	AM	Clerk	Peon
Case-1	N	TO	ZRL	DBPK	MU	A
Case-2	N	TO	ZRL	BPKU	DMA	
Case-3	O	MR	PBK	T	DZL	NU
Case-4	N	TM	PBK	D	Z	
Case-5	N	TM	PBK		DZ	

Again we have,

- Even number of persons working in I's designation.
- S works with Q but not with I.
- F is junior to Q.
- C, V and Y are working in the same designation.
- W is Junior to S.

After applying the above conditions case-1 gets eliminated, hence case-2 shows the final arrangement

Designations	Chairman	Director	Manager	AM	Clerk	Peon
Case-1	N	TO	ZRL	DBPK	MUSQ	AIFCVY
Case-2	N	TO	ZRL	BPKU	DMA	IFCVYW

Direction (5-8):

5) Answer: B

6) Answer: C

7) Answer: D

8) Answer: A

Final Arrangement

Year	Person(age)
1962	L(59)
1964	P(57)
1973	Q(48)
1975	I(46)
1981	N(40)
1984	O(37)
1989	M(32)
1995	K(26)
2004	J(17)

We have,

- The age of I is 46 years old.
- Only one person was born between I and P.

From the above condition, there are two possibilities.

Case1		Case2	
Year	Person(age)	Year	Person(age)
	P	1975	I(46)
1975	I(46)		P

Again we have,

- P is two years younger than L.
- The age of L is the last two digits of the birth year of the one who is the second-youngest person.
- The age difference between K and I is 20 years.
- Only one person is younger than K.
- The number of persons born before P is the same as the number of persons born after K.
- M was born adjacent to K.

From the above condition, Case2 gets eliminated.

Case1		Case2		Case 1a	
Year	Person(age)	Year	Person(age)	Year	Person(age)
1962	L(59)	1975	I(46)	1962	L(59)
1964	P(57)			1964	P(57)
			P		
1975	I(46)			1975	I(46)
					M
1995	K(26)			1995	K(26)
	M				

Again we have,

- The age difference between L and the one who is the second eldest person is the

same as the age difference between I and Q where I and Q are born adjacent to each other.

- N is elder than O but younger than I
- The age of O is the last two digits of the birth year of Q.
- The age difference between I and K is the same as the age difference between O and J.
- The age of N is the last two digits of the birth year of J.
- The age difference between M and K is twice the age difference between N and O.

From the above condition, case1 gets eliminated.

Case1a shows the final arrangement.

Case1		Case 1a	
Year	Person(age)	Year	Person(age)
1962	L(59)	1962	L(59)
1964	P(57)	1964	P(57)
1973	Q(48)	1973	Q(48)
1975	I(46)	1975	I(46)
		1981	N(40)
		1984	O(37)
		1989	M(32)
1995	K(26)	1995	K(26)
	M	2004	J(17)

9) Answer: C

We have,

From CY,

Code	Word
Power	fd
Makes	po
More	we
Strength	hj
Unity	qw
Always	rt/lk
Lead	rt/lk
is	ob
Her	df

From DZ,

Code	Word
Unity	qw
Fact	gh
Academy	vb
Course	ui
Real	wx
More	ab
Her	df
Belief	yu

From EY,

Code	Word
Level	df
Mountain	tu
Water	er
Security	xc
Rise	fg
Port	ab
in	vb
Forest	cv

10) Answer: D

We have,

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Quantitative aptitude

Prelims & Mains



Contents

S.No.	Details	Page No.
1	Why Guidely?	3
2	Exam Analysis (Question Weightage)	4
3	Question analysis with Our Mock and PDF course	6
4	Beginners quiz	13
5	Topic wise Bundle Course	22
6	Exam Wise Bundle PDF Course	37
7	Memory Based Bundle PDF Course	123
8	Prelims Scoring part	167
9	Mains Booster	179

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Exam Analysis (Question Weightage)

All Mains Exams-Quantitative aptitude-2022

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Table chart	5	5	5	-	-	-
Missing table DI	-	-	-	5	-	5
Double Pie chart	5	-	5	-	-	-
Pie chart	-	-	-	5	-	5
Line graph	-	-	-	5	-	5
Pie Chart + Table chart	-	5	-	-	-	-
Table+ caselet	-	-	-	-	5	-
Scattered DI	-	-	-	-	4	-
Caselet	5	5	2+3+3	5	4	4+5
Application sums	9	10	8	15	8	11
Quantity I and II	2	3	-	-	-	3
Data Sufficiency	3	-	3	3	3	3
Approximation	-	-	-	3	-	5
Quadratic equation	3	6	3	5	3	4
Simplification	3	-	-	-	-	-
Wrong number series	-	-	3	-	3	-
Missing number series	5	6	-	4	-	-
Total	40	40	35	50	30	50

Exam Analysis (Question Weightage)

All Mains Exams-Quantitative aptitude-2021

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Bar Graph	-	-	4	-	5	-
Line graph	5	-	-	-	-	-
Bar Graph + Table chart	-	-	-	-	-	5
Table chart	5	12	8	-	8	5
Double Pie chart	-	-	4	-	-	5
Pie Chart + Table chart	-	-	-	-	-	5
Caselet	5	5	-	14	8	8
Application problems	10	13	8	18	4	10
Quantity I and II	5	-	-	5	3	3
Data Sufficiency	-	-	6	-	3	3
Approximation	-	5	-	5	-	-
Quadratic equation	5	5	2	5	2	-
Simplification	-	-	-	-	-	3
Wrong number series	-	-	-	-	-	3
Missing number series	5	-	3	3	2	-
Total	40	40	35	50	35	50

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RRB Clerk Mains Analysis held on 24th September 2022

Questions Type	Status	RRB Clerk
Pie chart	Covered	Pie chart + table chart (5Q) – RRB PO Mains bundle pdf 2022 day 1
Caselet	Covered	Mixture and allegation (4Q) – RRB Clerk mains bundle pdf day 5
Missing number series	Covered	RRB Clerk mains bundle pdf day 16
Quadratic equation	Covered	special mains booster bundle pdf course 2022 day 34
Table chart	Covered	Table chart (5Q) - SBI PO mains bundle pdf day 25, RRB Clerk mains bundle pdf day 20
Quantity	Covered	4Q – RRB clerk mains bundle pdf day 6, RRB Clerk mains bundle pdf day 9, RRB Clerk mains bundle pdf day 15, RRB Clerk mains bundle pdf day 27, RRB Clerk mains bundle pdf day 31, RRB Clerk mains bundle pdf day 37
Application topics	Covered	Covered in most number of Mock and Bundle PDF course

RRB PO Mains Analysis held on October 1st 2022

Questions Type	Status	RRB PO
Pie chart	Covered	Double pie chart (5Q) – RRB PO Mains bundle pdf 2022 day 9, RRB PO Mains bundle pdf 2022 day 18, RRB PO mains bundle pdf 2022 day 32, SBI PO mains bundle pdf day 29, IBPS Clerk mains bundle pdf day 17, IBPS Clerk mains bundle pdf day 20, RRB Clerk mains bundle pdf day 34

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Caselet	Covered	Equation based caselet (5Q) – RRB PO Mains bundle pdf 2022 day 7, RRB PO Mains bundle pdf 2022 day 11, RRB PO Mains bundle pdf 2022 day 14, RRB PO Mains bundle pdf 2022 day 16, RRB PO Mains bundle pdf 2022 day 30, RRB PO Mains bundle pdf 2022 day 49
Missing number series	Covered	5Q – RRB PO Mains bundle pdf 2022 day 13, RRB Clerk mains bundle pdf day 16
Simplification	Covered	Covered in most number of Mock and Bundle PDF courses
Quadratic equation	Covered	3Q – RRB PO Mains bundle pdf day 11, SBI PO mains bundle pdf 2022 day 3
Table chart	Covered	Double table chart (5Q) – RRB Clerk mains bundle pdf day 44
Data sufficiency	Covered	3Q – RRB PO Mains bundle pdf 2022 day 6, RRB PO Mains bundle pdf 2022 day 12, RRB PO Mains bundle pdf 2022 day 20, RRB PO Mains bundle pdf 2022 day 24, SBI Clerk Mains bundle pdf 2022 day 11, SBI Clerk Mains bundle pdf 2022 day 14, RRB PO Mains bundle pdf 2022 day 31, RRB PO Mains bundle pdf 2022 day 35, RRB PO Mains bundle pdf 2022 day 40, RRB Clerk mains bundle pdf 2022 day 46
Quantity	Covered	3Q – RRB PO Mains bundle pdf 2022 day 2, RRB PO Mains bundle pdf 2022 day 9, RRB PO Mains bundle pdf 2022 day 18, RRB PO Mains bundle pdf 2022 day 23, RRB PO Mains bundle pdf 2022 day 36, SBI Clerk Mains bundle pdf 2022 day 43, SBI Clerk mains bundle pdf 2022 day 49
Application topics	Covered	Covered in most number of Mock and Bundle PDF course

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IBPS Clerk Mains Analysis held on October 8th 2022

Questions Type	Status	IBPS Clerk
Table chart	Covered	Missing table chart (5Q) – RRB PO Mains bundle pdf day 4, RRB PO Mains bundle pdf 2022 day 16, SBI PO mains bundle pdf day 27, IBPS Clerk mains bundle pdf day 35
Pie chart	Covered	5Q – RRB PO Mains bundle pdf 2022 day 14, IBPS Clerk mains bundle pdf day 6
Line graph	Covered	5Q – Special mains booster bundle pdf course 2022 day 32, Special mains booster bundle pdf course 2022 day 57
Caselet	Covered	Equations based 5Q – IBPS Clerk Mains bundle pdf day 11, IBPS Clerk mains bundle pdf day 14, IBPS Clerk mains bundle pdf day 37
Missing number series	Covered	New pattern two series (4Q) – RRB PO Mains bundle pdf day 5, RRB PO Mains bundle pdf 2022 day 42, IBPS PO mains bundle pdf day 21
Approximation	Covered	Covered in most number of Mock and Bundle PDF courses
Quadratic equation	Covered	Covered in most number of Mock and Bundle PDF course
Data sufficiency	Covered	3Q – IBPS Clerk mains bundle pdf day 6, IBPS Clerk mains bundle pdf day 12, IBPS Clerk mains bundle pdf day 18, IBPS clerk mains bundle pdf day 29, IBPS Clerk mains bundle pdf day 36
Application topics	Covered	Covered in most number of Mock and Bundle PDF course

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IBPS PO Mains Analysis held on October 1 2022

Questions Type	Status	IBPS PO
Table chart	Covered	Double table chart 5Q – IBPS Clerk mains bundle pdf day 44 Profit and Loss (3Q) – RRB PO Mains bundle pdf 2022 day 6, IBPS PO mains bundle pdf 2022 day 9
Pie chart	Covered	Double pie chart (variable 5Q) – RRB PO Mains bundle pdf 2022 day 1, IBPS PO mains bundle pdf 2022 day 2, IBPS Clerk mains bundle pdf day 40
Caselet	Covered	Time and distance (2Q) – SBI Clerk Mains bundle pdf 2022 day 32, SBI PO mains bundle pdf day 27, IBPS Clerk mains bundle pdf day 19 Time and work (3Q) – RRB PO Mains bundle pdf 2022 day 9, IBPS Clerk mains bundle pdf day 9, IBPS Clerk mains bundle pdf day 26 Mensuration (2Q) – RRB PO Mains bundle pdf 2022 day 3, RRB PO Mains bundle pdf 2022 day 8, RRB PO Mains bundle pdf 2022 day 17 boats and stream (4Q) – IBPS PO Mains bundle pdf day 16,
Wrong number series	Covered	New pattern three series (3Q) –Special mains booster bundle pdf course 2022 day 15
Quadratic equation	Covered	New pattern (3Q) – IBPS PO mains bundle pdf 2022 day 3
Data sufficiency	Covered	Three statement (4Q) – IBPS PO mains bundle pdf 2022 day 3, IBPS PO mains bundle pdf day 13, IBPS PO mains bundle pdf day 31, IBPS PO Mains bundle pdf day 37, IBPS PO mains bundle pdf day 47
Application topics	Covered	Covered in most number of Mock and Bundle PDF course

Question analysis with Our Mock Test & Bundle PDF course

SBI PO Mains Analysis held on October 1 2022

Questions Type	Status	SBI PO
Table chart	Covered	Table chart variable (2Q) –SBI Clerk mains bundle pdf day 1, SBI clerk mains bundle pdf day 9
Scattered chart	Covered	5Q – SBI Clerk Mains bundle pdf 2022 day 13, SBI Clerk Mains bundle pdf 2022 day 15, SBI Clerk Mains bundle pdf 2022 day 28, SBI Clerk mains bundle pdf 2022 day 39, SBI Clerk mains bundle pdf 2022 day 47, SBI PO Mains bundle pdf day 12, SBI PO mains bundle pdf day 16, SBI PO mains bundle pdf day 32, SBI PO mains bundle pdf day 47,
Caselet	Covered	Equation based (3Q) – SBI PO mains bundle pdf day 30, SBI PO mains bundle pdf day 39 Mixture and allegation (3Q) – SBI Clerk mains bundle pdf 2022 day 33, SBI PO mains bundle pdf day 12, SBI PO mains bundle pdf day 33,
Missing number series	Covered	Three series (1Q) – SBI PO mains bundle pdf 2022 day 6, SBI PO mains bundle pdf day 39, IBPS Clerk mains bundle pdf day 23, IBPS Clerk mains bundle pdf day 28
Wrong number series	Covered	3Q – SBI PO Mains bundle pdf day 12, IBPS Clerk mains bundle pdf day 19
Quadratic equation	Covered	New pattern (5Q) – SBI PO mains bundle pdf 2022 day 3,
Data sufficiency	Covered	3Q – SBI PO mains bundle pdf 2022 day 8, SBI PO mains bundle pdf day 13, SBI PO mains bundle pdf day 22, SBI PO mains bundle pdf day 26, SBI PO mains bundle pdf day 31, SBI PO mains bundle pdf day 37, SBI PO mains bundle pdf day 47
Application topics	Covered	Covered in most number of Mock and Bundle PDF course

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SBI Clerk Mains Analysis held on October 1 2022

Questions Type	Status	SBI Clerk
Table chart	Covered	Missing table chart (5Q) – SBI Clerk mains bundle pdf 2022 day 38
Pie chart	Covered	Based on variable (5Q) – SBI Clerk Mains bundle pdf 2022 day 45
Line graph	Covered	Direct value (5Q) – SBI Clerk mains bundle pdf 2022 day 4, SBI Clerk Mains bundle pdf 2022 day 10,
Caselet	Covered	Equation based (5Q) – SBI Clerk Mains bundle pdf 2022 day 11, SBI Clerk Mains bundle pdf 2022 day 14, SBI Clerk Mains bundle pdf 2022 day 16, SBI Clerk Mains bundle pdf 2022 day 30, SBI Clerk Mains bundle pdf 2022 day 49 Normal caselet (4Q) – SBI Clerk Mains bundle pdf 2022 day 4,
Approximation	Covered	Covered in most number of Mock and Bundle PDF course
Quadratic equation	Covered	New pattern (4Q) – SBI Clerk Mains bundle pdf 2022 day 4
Data sufficiency	Covered	3Q – SBI Clerk mains bundle pdf 2022 day 6, SBI Clerk Mains bundle pdf 2022 day 12, SBI Clerk Mains bundle pdf 2022 day 20, SBI Clerk Mains bundle pdf 2022 day 24, SBI Clerk Mains bundle pdf 2022 day 11, SBI Clerk Mains bundle pdf 2022 day 14, SBI Clerk Mains bundle pdf 2022 day 31, SBI Clerk mains bundle pdf 2022 day 35, SBI Clerk Mains bundle pdf 2022 day 40, SBI Clerk Mains bundle pdf 2022 day 46



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Beginner's Quiz

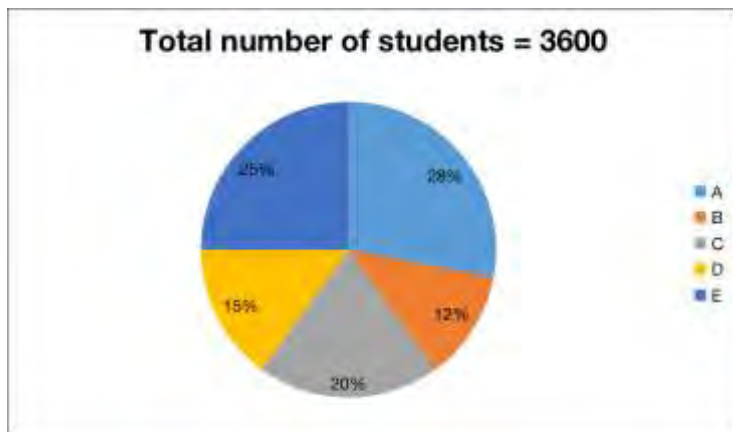
➤ What are the benefits of Beginner's Quiz?

All banking Aspirants, who have cleared the exams, were once Beginners. It is a level at which the aspirants need to “**learn the basics thoroughly**”. Our team has prepared this Beginners quiz exclusively for the aspirants who need to learn basics. The level of questions in this Beginner's Quiz are at **one step below the real exam level**. After practicing all topics in our Beginner's quiz, you can be thorough with the basics. Also, you can easily analyze your strong and weaker areas.

Sample Questions for Beginners Quiz

Directions (1-5): Study the following information carefully and answer the questions given below.

The given pie chart shows the number of students in five different classes.



1) The number of boys and girls in class A is 4:3.

Find the difference between the number of boys and girls in class A?

- a) 132
- b) 136
- c) 140
- d) 144
- e) 148

2) What is the ratio of the number of students in D and C?

- a) 3:5
- b) 2:3
- c) 3:4
- d) 1:2
- e) None of these

3) The number of students in class B is what percent of the number of students in E?

- a) 45%
- b) 48%
- c) 52%
- d) 42%
- e) 56%

4) The number of students in F is 25% more than the number of students in A. What is the difference between the number of students in F and D?

- a) 720
- b) 750

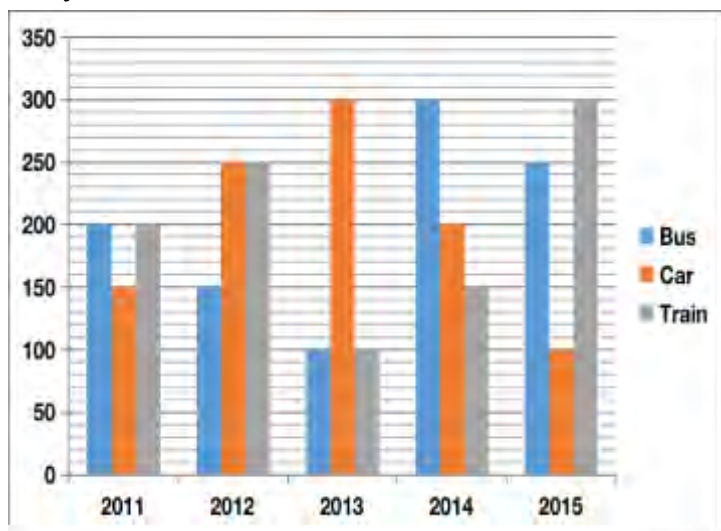
- c) 780
- d) 810
- e) 840

5) What is the average number of students in B, C and E together?

- a) 682
- b) 684
- c) 688
- d) 690
- e) 680

Direction (6-10): Study the following information carefully and answer the given questions:

The given bar graph shows the number of persons using different modes of transport over the years.



6) What is the average number of persons travelling by Car in all the years together?

- a) 100
- b) 150
- c) 200
- d) 240

e) None of these

7) What is the difference between the total number of persons travelling by train in 2011, 2013 and 2015 together and the number of persons travelling by Bus in 2012 and 2014 and 2015 together?

- a) 80
- b) 100
- c) 120
- d) 150
- e) 200

8) IF the number of persons travelling by Car in 2016 is increased by 50% compare to previous year. The number of persons travelling by Car in 2016 is what percent of the number of persons travelling by car in 2012?

- a) 40%
- b) 50%
- c) 60%
- d) 70%
- e) None of these

9) What is the ratio of the number of persons travelling by Bus in 2012 and the number of persons travelling by Train in 2014 together to the number of persons travelling by Car in 2011 and the number of persons travelling by Bus in 2013 together?

- a) 3:5
- b) 7:8

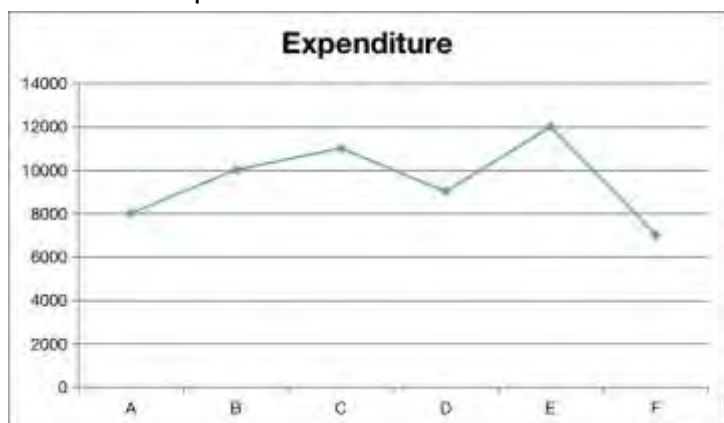
- c) 7:6
d) 6:5
e) None of these

10) What is the difference between the average number of persons travelling by Bus in all the years together and the average number of persons travelling by train in all the years together?

- a) 100
b) 150
c) 200
d) 50
e) None of these

Directions (11-15): Study the following information carefully and answer the questions given below.

The given line graph shows the expenditure of six different companies.



- 11) If the profit earned by C and F is Rs.4000 and Rs.3600 respectively, then what is the difference between the income of C and F?
- a) Rs.4000
b) Rs.4200

- c) Rs.4400
d) Rs.4500
e) Rs.4800

12) If the expenditure of A and D is 80% and 45% of the income, then what is the ratio of the profit earned by D to A?

- a) 2:11
b) 3:10
c) 1:3
d) 2:13
e) 1:6

13) The expenditure of G is equal to the sum of the expenditure of B and E together and the income of G is Rs.30000, what is the profit of G?

- a) Rs.6000
b) Rs.7000
c) Rs.8000
d) Rs.9000
e) Rs.12000

14) What is the average of expenditure of all the companies together?

- a) Rs.8800
b) Rs.9200
c) Rs.9400
d) Rs.9500
e) Rs.9600

15) The income of C is 20% more than the expenditure of E and the income of F is 10%

more than the expenditure of A. What is the difference between the profit of C and F?

- a) Rs.1200
- b) Rs.1600
- c) Rs.1800
- d) Rs.2000
- e) None of these

Directions (16-20): Study the following information carefully and answer the questions given below.

The ratio of the number of male in WHO to UN meeting is 5:4. The number of female in WHO meeting is 90% of the number of female in IMF meeting and the number of male in IMF meeting is 45 less than the number of male in WHO meeting. The total number of person in WHO meeting is 20% more than that of UN meeting. The number of female in IMF meeting is 270 more than the number of male in the same meeting. The ratio of the number of male and female in UN meeting is 6:7.

16) What is the total number of person in UN Meeting?

- a) 1950
- b) 1980
- c) 1900
- d) 1920
- e) 1940

17) Find the ratio of the number of males to females in IMF Meeting.

- a) 2:3

- b) 3:4
- c) 4:5
- d) 5:6
- e) None of these

18) Find the number of males in WHO Meeting.

- a) 1120
- b) 1125
- c) 1130
- d) 1135
- e) 1145

19) The number of female in WHO Meeting is what percent of the number of male in UN Meeting?

- a) 120%
- b) 125%
- c) 130%
- d) 135%
- e) 140%

20) What is the average number of females in UN and IMF meeting?

- a) 1100
- b) 1200
- c) 1300
- d) 1400
- e) 1000

21. Pipe A can fill a tank in 36 min while Pipe B can empty it in 48 min. If both the pipes were opened on alternate minutes starting with pipe A,

then how much time will it take to fill the tank completely?

- a) 281 minutes
- b) 242 minutes
- c) 246 minutes
- d) 247 minutes
- e) 230 minutes

22. A blue pipe can empty a tank in 8 hours while a green pipe can fill it in 3 hours. If the tank is initially half-filled and the blue pipe is opened, how many blue pipes are required to be opened in it to empty the tank in 12 hours?

- a) 2
- b) 3
- c) 4
- d) 5
- e) 6

23. If the street hawker marked up an article by 125% above cost price. If the ratio between the profit percent and discount percent is 7:8 and S.P. of an article is Rs. 540. Find the marked price of an article?

- a) Rs. 900
- b) Rs. 600
- c) Rs. 700
- d) Rs. 800
- e) None of these

24. The average cost price of articles P and Q together is Rs. 500 while cost price of article Q is Rs. 120 more than that of article P. Find the total

loss on selling articles P and Q at 20% loss and 25% loss respectively?

- a) Rs. 208
- b) Rs. 248
- c) Rs. 228
- d) Rs. 276
- e) Rs. 250

25. The ratio of father and daughter's present age is 3 : 1 and the ratio of mother and son's present age is 4 : 1. If the sum of present age of mother and son is 60 and daughter is six years older than son, then find the ratio of father's age to the mother's age two years hence?

- a) 21 : 19
- b) 27 : 29
- c) 28 : 25
- d) 25 : 23
- e) None of these

26. The average age of mother, father and son is 24 years. Ten years ago, the total age of father and mother was 45 years. Four years ago, the average age of mother, father, son and daughter is 15.25 years. Find the average age of son and daughter after 12 years?

- a) 17 years
- b) 18 years
- c) 19 years
- d) 15 years
- e) 20 years

27. The average weight of 3 men A, B and C is 84 kg. Another man D joined the group and the average now becomes 80 kg. If another man E whose weight is 3 kg more than that of D, replaces A, then the average weight of B, C, D and E become 79 kg. Then the weight of A is:

- a) 72kg
- b) 74kg
- c) 75kg
- d) 78kg
- e) 80kg

28. A boat can cover a distance of 15 km upstream and 26 km downstream in 5 hours 45 minutes, while the time taken by the boat to cover 18 km upstream and 20 km downstream in 5 hours 30 minutes. Find the distance travelled by the boat in still water in 7 hours 30 minutes?

- a) 60 km
- b) 52.5 km
- c) 90 km
- d) 75 km
- e) None

29. The sum of upstream and downstream speed of a boat is 30 km/hr. Find the time taken by the boat to cover 140 km in downstream if the ratio of speed of boat in still water and speed of stream is 3:1 respectively?

- a) 5 hours
- b) 7 hours
- c) 7.5 hours
- d) 8 hours
- e) 9 hours

30. Speed of a train A and train B is 'x+22' km/hr and 'x+32' km /hr respectively and length of the train A is 312 metres and length of train B is 265.5 metres. If both trains are travelled in opposite direction and they cross each other in 13.5 sec, they find the value of 'x'?

- a) 40
- b) 60
- c) 50
- d) 70
- e) 80

ANSWER WITH EXPLANATION

1. Answer: D

$$\text{Required difference} = \frac{1}{7} * \frac{28}{100} * 3600 = 144$$

2. Answer: C

$$\text{Required ratio} = 15:20$$

$$= 3:4$$

3. Answer: B

$$\begin{aligned} \text{Required percentage} &= \frac{12}{25} * 100 \\ &= 48\% \end{aligned}$$

4. Answer: A

$$\begin{aligned} \text{Required difference} &= (28 * 125/100 - 15)/100 * \\ &3600 \\ &= 720 \end{aligned}$$

5. Answer: B

$$\begin{aligned} \text{Required average} &= (12 + 20 + 25)/300 * 3600 \\ &= 684 \end{aligned}$$

6. Answer: C

$$\text{Average} = 150 + 250 + 300 + 200 + 100 / 5 = 200$$

7. Answer: B

$$\text{Difference} = (150 + 300 + 250) - (200 + 100 + 300) = 100$$

8. Answer: C

$$\begin{aligned} \text{Car in 2016} &= 100 * 150 / 100 = 150 \\ \text{Required percentage} &= 150 / 250 * 100 = 60\% \end{aligned}$$

9. Answer: D

$$\begin{aligned} \text{Required ratio} &= (150 + 150) : (150 + 100) \\ &= 300 : 250 = 6 : 5 \end{aligned}$$

10. Answer: E

$$\begin{aligned} \text{Average in bus} &= 200 + 150 + 100 + 300 + 250 / 5 = 200 \\ \text{Average in train} &= (200 + 250 + 100 + 150 + 300) / 5 = 200 \\ \text{Difference} &= 200 - 200 = 0 \end{aligned}$$

11. Answer: C

$$\begin{aligned} \text{Income of C} &= 11000 + 4000 = \text{Rs } 15000 \\ \text{Income of F} &= 3600 + 7000 = \text{Rs } 10600 \\ \text{Difference} &= 15000 - 10600 = \text{Rs } 4400 \end{aligned}$$

12. Answer: A

$$\begin{aligned} \text{Required ratio} &= 20/80 * 8000 : 55/45 * 9000 \\ &= 2000 : 11000 \\ &= 2 : 11 \end{aligned}$$

13. Answer: C

$$\begin{aligned} \text{The expenditure of G} &= 10000 + 12000 = \text{Rs } \\ &22000 \\ \text{Profit of G} &= 30000 - 22000 = \text{Rs } 8000 \end{aligned}$$

14. Answer: D

$$\begin{aligned} \text{Required average} &= (8000 + 10000 + 11000 + \\ &9000 + 12000 + 7000) / 6 \\ &= \text{Rs } 9500 \end{aligned}$$

15. Answer: B

$$\begin{aligned} \text{Profit of C} &= 120/100 * 12000 - 11000 = \text{Rs } 3400 \\ \text{Profit of F} &= 110/100 * 8000 - 7000 = \text{Rs } 1800 \\ \text{Required difference} &= 3400 - 1800 = \text{Rs } 1600 \end{aligned}$$

16. Answer: A

Common Explanation: (21 to 25)

$$\begin{aligned} \text{The number of male in WHO Meeting} &= 5x \\ \text{The number of male in UN meeting} &= 4x \\ \text{The number of female in UN Meeting} &= 4x * 7/6 = \\ &14x/3 \\ \text{The number of person in WHO Meeting} &= 120/100 \\ &* (4x + 14x/3) = 10.4x \\ \text{The number of female in WHO Meeting} &= 10.4x - \\ &5x = 5.4x \\ \text{The number of male in IMF meeting} &= 5x - 45 \end{aligned}$$

The number of female in IMF Meeting = $100/90 * 5.4x = 6x$

$$5.4x = 6x$$

$$6x - (5x - 45) = 270$$

$$x = 225$$

The number of male in WHO Meeting = $5 * 225 = 1125$

$$1125$$

The number of female in WHO Meeting = $5.4 * 225 = 1215$

$$225 = 1215$$

The total number of person in WHO Meeting =

$$10.4 * 225 = 2340$$

The number of male in UN meeting = $4 * 225 = 900$

$$900$$

The number of female in UN Meeting = $14 * 225/3 = 1050$

$$= 1050$$

The total number of person in UN Meeting = $900 + 1050 = 1950$

$$+ 1050 = 1950$$

The number of male in IMF meeting = $5 * 225 - 45 = 1080$

$$= 1080$$

The number of female in IMF Meeting = $6 * 225 = 1350$

$$1350$$

The total number of persons in IMF Meeting =

$$1080 + 1350 = 2430$$

According to the question,

The total number of person in UN Meeting = $900 + 1050 = 1950$

$$+ 1050 = 1950$$

17. Answer: C

Required ratio = $1080:1350$

$$= 4:5$$

18. Answer: B

Required total = 1125

19. Answer: D

Required % = $1215/900 * 100$

$$= 135\%$$

20. Answer: B

Required average = $(1050 + 1350)/2$

$$= 1200$$

21. Answer: A

Pipe A can fill a tank in = 36 min

Pipe B can empty a tank in = 48 min

According to the question,

$$36 \quad 48$$

$$144$$

$$4 \quad -3$$

$$4 - 3 = 1 \text{ unit}$$

1 units -----> 2 min

140 units -----> 280 min

22. Answer: B

Let the number of blue pipes opened be 'x'

Part filled by green pipe in 1 hr = $1/3$

Part of tank initially filled = $1/2$

Part of tank filled in 12 hrs. = $1/2 + 12 * (1/3) = 1/2 + 4 = 9/2$

$$1/2 + 4 = 9/2$$

Now,

Part emptied by 1 blue pipe in 1 hr. = $1/8$

Part emptied by x blue pipes in 1 hr. = $x/8$

Part emptied by x blue pipes in 12 hrs. = $12 * x/8 = 3 * x/2$

$$= 3 * x/2$$

$$3 * x/2 = 9/2$$

$$x = 9/3 = 3$$

23. Answer: A

$$CP/MP = (100-D\%) / (100+P\%)$$

$$4/9 = (100-8x) / (100+7x)$$

$$X=5$$

$$D\% = 40\%$$

$$P\% = 35\%$$

$$CP: MP: SP = 100:225:135 = 4:9:5.4$$

$$(9/5.4)*540 = \text{Rs.}900$$

24. Answer: C

Sum of the cost price of articles P and Q = $500*2$

$$= \text{Rs. } 1000$$

$$P + Q = 1000 \text{ -----} \rightarrow 1$$

$$Q - P = 120 \text{ -----} \rightarrow 2$$

By equation 1 & 2,

$$\text{Cost price of Q} = 560, \text{ Cost price of P} = 440$$

$$\text{Total loss} = 560*25\% + 440*20$$

$$= 140 + 88$$

$$= \text{Rs. } 228.$$

25. Answer: C

$$F/D = 3/1$$

$$F = 3D$$

$$M/S = 4/1$$

$$M = 4S$$

$$M + S = 60$$

$$5S = 60$$

$$S = 12 \text{ years}$$

$$M = 48 \text{ years}$$

$$D = 12 + 6 = 18 \text{ years}$$

$$F = 3*18 = 54 \text{ years}$$

$$\text{Required ratio} = 56 : 50 \Rightarrow 28 : 25$$

26. Answer: B

$$M + F + S = 24*3 = 72 \text{ years}$$

$$M + F - 20 = 45 \text{ years}$$

$$M + F = 65$$

$$S = 72 - 65 = 7 \text{ years}$$

$$M + F + S + D = 15.25 * 4 + 16 = 61 + 16 = 77$$

$$D = 77 - (65+7) = 5 \text{ years}$$

$$\text{Required average} = (7+5+24)/2 = 18 \text{ years}$$

27. Answer: C

Average weight of A, B and C = 84 kg

Average weight of A, B, C and D = 80 kg

Average weight of B, C, D and E = 79 kg

$$A-E = 1*4 = 4 \text{ kg}$$

$$D = 80-3*4 = 68\text{kg}$$

$$E = 3+68 = 71 \text{ kg}$$

$$A-71 = 4$$

$$A = 75\text{kg}$$

28. Answer: B

$$1/\text{Upstream speed} = x$$

$$1/\text{Downstream speed} = y$$

$$15x+26y= 23/4 \text{ ----} \rightarrow 1$$

$$18x+ 20y= 11/2 \text{ ----} \rightarrow 2$$

$$\text{By 1 \& 2, } x = 1/6, y = 1/8$$

$$\text{Boat speed} = (6+8)/2 = 7 \text{ km/hr}$$

$$\text{Required distance} = 7*7.5 = 52.5 \text{ km}$$

29. Answer: B

Let the speed of boat in still water be $3x$ km/hr

$$\text{Speed of stream} = (1/3)*3x = x \text{ km/hr}$$

$$\text{Downstream speed of the boat} = 3x + x = 4x$$

km/hr

Upstream speed of the boat = $3x - x = 2x$ km/hr

ATQ, $4x + 2x = 30$

$6x = 30$

$x = 5$

Downstream speed of the boat = $4 \times 5 = 20$ km/hr

Required time = $140/20 = 7$ hours

30. Answer: C

Speed of a train A = $x + 22$ km/hr

Speed of a train B = $x + 32$ km/hr

So, relative speed = $x + 22 + x + 32 = 2x + 54$

= $(2x + 54) \times (5/18)$ m/sec

Then

$(2x + 54) \times (5/18) = (312 + 265.5)/13.5$

$2x + 54 = (18/5) \times (577.5)/13.5$

$2x + 54 = 154$

$2x = 100$

$x = 50$

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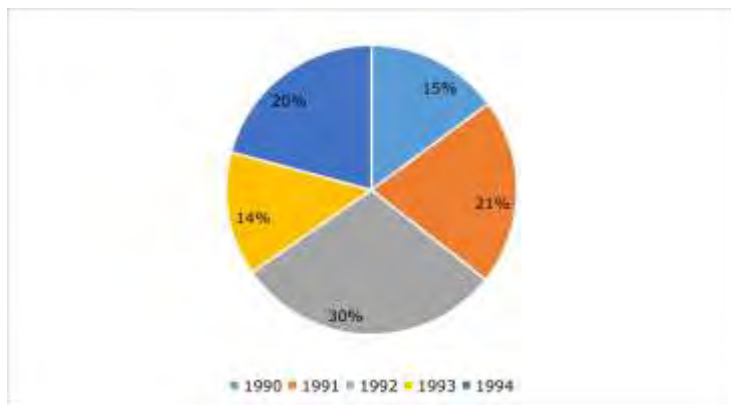
Directions (1-5): Study the following information carefully and answer the questions.

The given pie chart shows the percentage distribution of the average number of bamboo and pine plants planted in five different years i.e. 1990, 1991, 1992, 1993 and 1994.

Note: The sum of the average number of bamboo and pine plants planted in 1991 and 1994 together is 1640.

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1) If the ratio of the number of bamboo to pine plants planted in 1991 is 5:2, then the number of pine plants planted in 1991 is what percentage of the total number of bamboo and pine plants planted in 1994?

- a) 30%
- b) 90%
- c) 50%
- d) 70%
- e) None of these

2) Find the difference between the total number of bamboo and pine plants planted in 1991 and the total number of bamboo and pine plants planted in 1993?

- a) 630
- b) 560
- c) 710
- d) 340
- e) None of these

3) If the number of bamboo and pine plants planted in 1995 is 10% and 25% more than that of 1992 and the ratio of the number of bamboo to pine plants planted in 1992 is 7:5, then find the

total number of bamboo and pine plants planted together in 1995?

- a) 3100
- b) 1980
- c) 3050
- d) 2790
- e) None of these

4) If the ratio of the number of bamboo, pine and apple plants planted in 1994 is 3:2:1 respectively, then find the ratio of the total number of bamboo and pine plants planted in 1990 to the total number of pine and apple plants planted in 1994?

- a) 10:9
- b) 7:8
- c) 5:4
- d) 2:1
- e) None of these

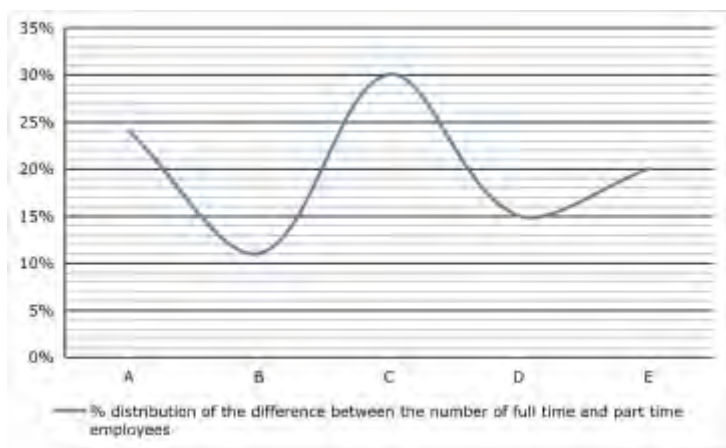
5) If the ratio of the number of bamboo plants planted in 1990 to 1993 is 5:6 and the ratio of the number of pine plants planted in 1990 to 1993 is 3:2, then find the number of bamboo plants planted in 1990?

- a) 600
- b) 750
- c) 300
- d) 500
- e) None of these

Directions (6-10): Study the following information carefully and answer the questions.

The given line graph shows the percentage distribution of the difference between the number of full time and part time employees in five different companies i.e. A, B, C, D and E in May.

Note: The sum of the difference between the number of full time and part time employees in all five companies together is 400. The ratio of the number of full time to part time employees in companies A, B, C, D and E is 10:7, 5:7, 9:5, 3:4 and 11:9 respectively.



6) The total number of employees in company C is how much less than the total number of employees in company E?

- a) 300
- b) 220
- c) 380
- d) 250
- e) None of these

7) In company D, if the ratio of the total number of employees in April to May is 5:7 and the number of male employees in April is 50% more than that of female employees, then find the number of female employees in April?

- a) 120
- b) 150
- c) 200
- d) 180
- e) None of these

8) If the total number of employees in company F is 36 more than that of company B and the ratio of the number of full time employees in company B to F is 2:3, then find the ratio of the number of full time to part time employees in company F?

- a) 3:1
- b) 11:9
- c) 7:4
- d) 8:5
- e) None of these

9) Find the ratio of the number of full time employees in company A to the number of part time employees in company E?

- a) 5:4
- b) 3:2
- c) 7:6
- d) 8:9
- e) None of these

10) Out of the number of full time and part time employees in company A, 62.5% and 75% of the employees are males. Find the total number of female employees in company A?

- a) 118
- b) 152
- c) 176

- d) 140
e) None of these

Sample Questions from Topic wise bundle PDF
course Cumulative DI

Directions (11-15): Read the following information
carefully and answer the questions given below.

The given table shows the cumulative %
distribution of total buildings of Residential and
Commercial constructed together in five different
months i.e. March, April, May, June and July and
the cumulative number of Residential buildings
constructed in the five different months.

Total number of buildings constructed in all five
months = 1600

	Cumulative % distribution of Total buildings constructed	Cumulative number of Residential buildings constructed
In March	20%	180
Till April	35%	340
Till May	60%	490
Till June	70%	580
Till July	100%	830

11) The total number of commercial buildings
constructed in April is what percentage of the
total number of Residential building constructed
in May and July?

- a) 10%
b) 20%
c) 15%
d) 35%
e) None of these

12) Find the ratio between the average number of
Residential buildings constructed in March and
April together to the average number of
Commercial buildings constructed in May and
July.

- a) 19:21
b) 18:23
c) 24:27
d) 17:24
e) None of these

13) Find the difference between the total number
of Residential buildings constructed in May and
June together and the total number of
Commercial buildings in July.

- a) 10
b) 15
c) 25
d) 29
e) None of these

14) Find the sum of the average number of
Residential buildings constructed in March and
July together and the average number of
Commercial buildings constructed in April and
May.

- a) 420
b) 480
c) 380
d) 350
e) None of these

15) If 20% and 40% of the residential building and Commercial buildings are sold in May, then find the difference between the unsold Residential and Commercial buildings in May.

a) 40

b) 55

c) 35

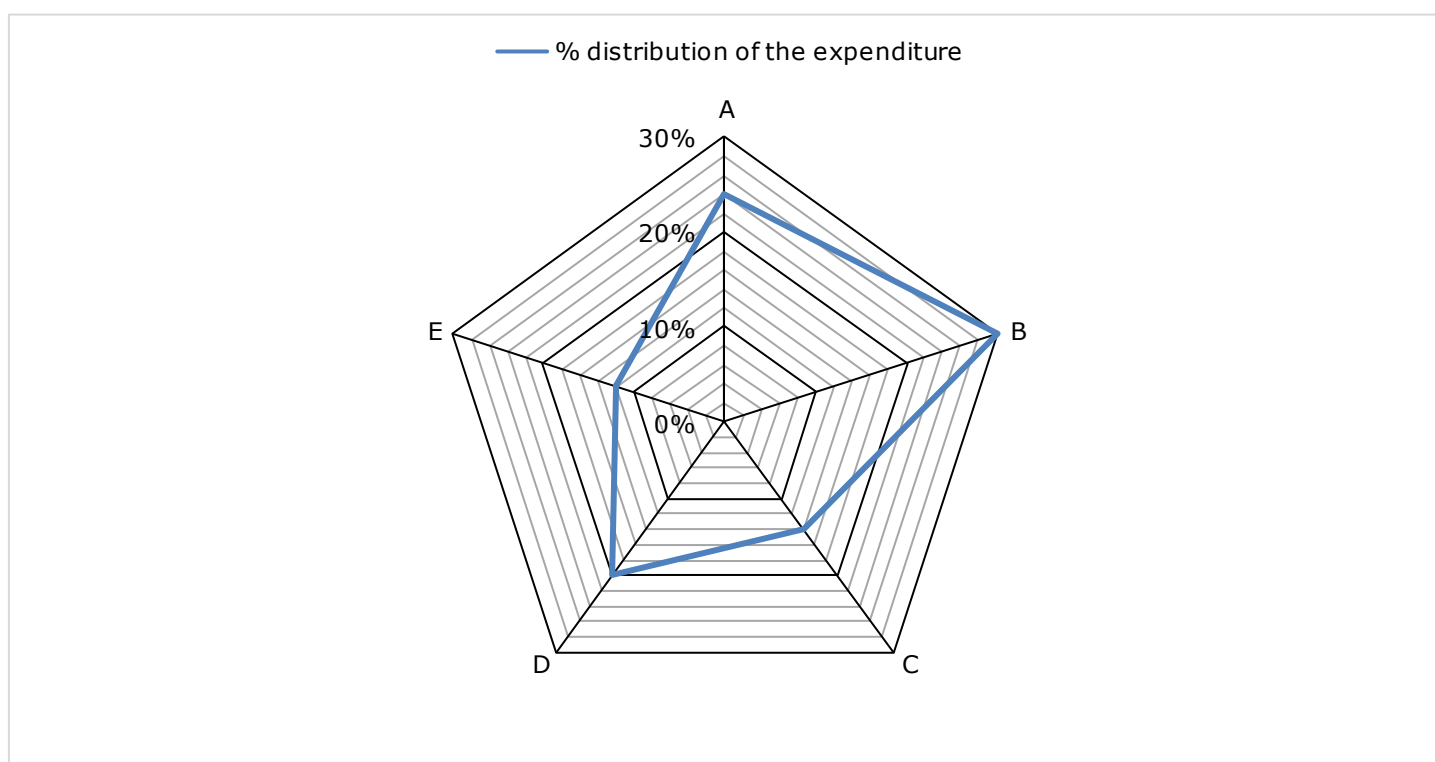
d) 30

e) None of these

Directions (16-20): Study the following information carefully and answer the questions.

The given radar graph shows the percentage distribution of the expenditure of five different companies i.e. A, B, C, D and E in 2016 and the expenditure of five different companies together is Rs.2.5 lakhs.

Note: Income = Expenditure + Profit



16) If the profit of company D is $\frac{1}{5}$ th of the expenditure of company B, then find the income of company D.

a) Rs.90000

b) Rs.10500

c) Rs.72000

d) Rs.86000

e) Rs.65000

17) Find the difference between the expenditure of company A and the expenditure of company C.

a) Rs.25000

b) Rs.18000

c) Rs.31000

d) Rs.26000

e) Rs.34000

18) If the ratio of the expenditure to profit of company A is 4:1 and the income of company F is 80% of the income of company A, then find the income of company F.

- a) Rs.80000
- b) Rs.96000
- c) Rs.72000
- d) Rs.60000
- e) None of these

19) The expenditure of company E is what percentage of the expenditure of company B?

- a) 25%
- b) 40%
- c) 15%
- d) 70%
- e) 30%

20) If the expenditure of company E in 2017 is 30% more than that in the previous year and the income of company E in 2017 is equal to the expenditure of company D in 2016, then find the profit of company E in 2017.

- a) Rs.19000
- b) Rs.20000
- c) Rs.11000
- d) Rs.14000
- e) None of these

Directions (21-25): Study the following information carefully and answer the questions given below.

In 2010, a total number of 1700 visitors from eight cities A-H is visiting the Museum. The ratio of the number of visitors from H to F is 2:1. The average number of visitors from A, B and E is equal to the number of visitors from A. The number of visitors from D is 80 less than that of C. The average number of visitors from F and A is 160 less than that of visitors from C. The number of visitors from F and A are the same. The difference between the number of visitors from B and E is 120. A has less number of visitors than E. 500 visitors are visiting from city G. E has more number of visitors than B

21) If 40% of the total number of visitors from city D is male and 75% of the total number of visitors from city E is female, then approximately the number of male visitors from city E is what percentage of the number of female visitors from the city D?

- A.37.5
- B.75
- C.60
- D.35
- E.40

22) What is the average number of visitor from C, D, F and G?

- A.250
- B.255
- C.275
- D.265
- E.270

23) In 2011, the ratio of the number of male visitors to the female visitors from city M is 5:9. The ratio of the total number of visitors from B in 2010 to M in 2011 is 3: 7, then what is the difference between the number of male and female visitors from city M?

- A.35
- B.20
- C.30
- D.40
- E.None of these

24) If 55% of visitors from city A and C are from Shimla and 60% of visitors from city E and G are from Goa, Then the difference between the visitors who do not belong to Shimla from city A and C is approximately what percentage of the sum of the number of visitors who do not belong to Goa from city E and number of visitors who belong to Goa from city G?

- A.20
- B.30
- C.40
- D.15
- E.None of these

25) Find the ratio of the average number of female visitors from B, H and A to the Difference between the number of female visitors from F and E, if the number of male visitors is twice the number of female visitors in all the cities?

- A.4: 3
- B.5: 7

- C.7: 3
- D.3: 8
- E.None of these

26) P and Q started a business and after 6 months R joined the business with an investment of Rs.4000. At the end of the year, the profit share of P and Q is 25% more and 50% less than the profit share of R. Find the investment of Q if the sum of the investment of P and Q is Rs.3500.

- a) Rs.1000
- b) Rs.2500
- c) Rs.2000
- d) Rs.1500
- e) None of these

27. After 5 years, Sum of the ages of P and Q is x years and the present age of Q is $x/3$ years and the sum of the present ages of P and R is 32 years and the present age of R is $4/5^{\text{th}}$ of the present age of Q. Find the present age of Q.

- A.24 years
- B.15 years
- C.20 years
- D.12 years
- E.None of these

28.The ratio of the radius of the cone and cylinder is 3: 2 and the ratio of the height and radius of the cone is 2: 3. The total surface area of the cylinder is 1760 cm^2 and the ratio of the radius and height of the cylinder is 7: 3. What is the volume of the cone?

- A. 6468 cm³
- B. 6864 cm³
- C. 7664 cm³
- D. 6476 cm³
- E. None of these

29) A train can cross a platform and an electric pole in 32 seconds and 12 seconds respectively. The length of platform is 172 meters, then find the length of other train T whose length is sum of 25% length of first train and 200% of length of platform.

- A. 369.8 meters
- B. 367.8 meters
- C. 364.8 meters
- D. 365.8 meters
- E. None of these

Following questions contain two statements as statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give an answer as,

30. Pipes A and B together can fill a tank in 20 minutes. Find the time taken by pipes B and C together can fill the tank?

Statement I: Pipes A and C together can fill the tank in $22\frac{1}{2}$ minutes and the efficiency of pipe C is $\frac{2}{3}$ rd of the efficiency of pipe D.

Statement II: The ratio of the efficiency of pipes A, B and C is 6:3:2 respectively.

A. The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

- B. The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- C. The data either in statement I alone or in statement II alone is sufficient to answer the question
- D. The data given in both statements I and II together are not sufficient to answer the question
- E. The data given in both statements I and II together are necessary to answer the question.

Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as,

31)

Quantity I: A milkman has 45 liters mixture of milk and water in the ratio of 5: 4. If 10 liters water is added, then what is percentage of water in the final mixture?

Quantity II: A vessel contains 40 liters mixture of water and acid in the ratio of 3: 2. If 20 liters of mixture is taken out and replaced by water, then what percentage of acid in the final mixture?

- A. Quantity I > Quantity II
- B. Quantity I \geq Quantity II
- C. Quantity II > Quantity I
- D. Quantity II \geq Quantity I
- E. Quantity I = Quantity II or Relation cannot be established

ANSWER WITH EXPLANATION**Directions (1-5):**

The sum of the average number of bamboo and pine plants planted in 1991 and 1994 together = 1640

The sum of the average number of bamboo and pine plants planted in five different years = 1640 * 100/(20 + 21) = 1640 * 100/41 = 4000

The average number of bamboo and pine plants planted in 1990 = 4000 * 15/100 = 600

The total number of bamboo and pine plants planted in 1990 = 600 * 2 = 1200

The average number of bamboo and pine plants planted in 1991 = 4000 * 21/100 = 840

The total number of bamboo and pine plants planted in 1991 = 840 * 2 = 1680

The average number of bamboo and pine plants planted in 1992 = 4000 * 30/100 = 1200

The total number of bamboo and pine plants planted in 1992 = 1200 * 2 = 2400

The average number of bamboo and pine plants planted in 1993 = 4000 * 14/100 = 560

The total number of bamboo and pine plants planted in 1993 = 560 * 2 = 1120

The average number of bamboo and pine plants planted in 1994 = 4000 * 20/100 = 800

The total number of bamboo and pine plants planted in 1994 = 800 * 2 = 1600

1990	1200
1991	1680
1992	2400
1993	1120
1994	1600

1. Answer: A

The number of pine plants planted in 1991 = 1680 * 2/(5 + 2) = 1680 * 2/7 = 480

Required percentage = 480/1600 * 100 = 30%

2. Answer: B

Required difference = 1680 – 1120 = 560

3. Answer: D

The number of bamboo plants planted in 1992 = 2400 * 7/(7 + 5) = 2400 * 7/12 = 1400

The number of pine plants planted in 1992 = 2400 – 1400 = 1000

The number of bamboo plants planted in 1995 = 1400 * 110/100 = 1540

The number of pine plants planted in 1995 = 1000 * 125/100 = 1250

The total number of bamboo and pine plants planted together in 1995 = 1540 + 1250 = 2790

4. Answer: C

Years	The total number of bamboo and pine plants planted

The total number of apple and pine plants planted in 1994 = $1600 * (2 + 1)/(3 + 2) = 1600 * 3/5 = 960$

Required ratio = $1200:960 = 5:4$

5. Answer: A

Let the number of bamboo plants planted in 1990 = $5x$

The number of bamboo plants planted in 1993 = $6x$

The number of pine plants planted in 1990 = $3y$

The number of pine plants planted in 1993 = $2y$

$$5x + 3y = 1200 \text{ ---(1)}$$

$$6x + 2y = 1120 \text{ ---(2)}$$

From (1) and (2),

$$30x + 18y = 7200$$

$$- 30x - 10y = - 5600$$

$$8y = 1600$$

$$y = 200$$

$$5x + 3 * 200 = 1200$$

$$5x = 600$$

$$x = 120$$

The number of bamboo plants planted in 1990 =

$$5 * 120 = 600$$

Directions (6-10):

Company A:

The difference between the number of full time and part time employees = $400 * 24/100 = 96$

The number of full time employees = $96 * 10/(10 - 7) = 96 * 10/3 = 320$

The number of part time employees = $320 * 7/10 = 224$

The total number of employees = $320 + 224 = 544$

Company B:

The difference between the number of full time and part time employees = $400 * 11/100 = 44$

The number of full time employees = $44 * 5/(7 - 5) = 44 * 5/2 = 110$

The number of part time employees = $110 * 7/5 = 154$

The total number of employees = $110 + 154 = 264$

Company C:

The difference between the number of full time and part time employees = $400 * 30/100 = 120$

The number of full time employees = $120 * 9/(9 - 5) = 120 * 9/4 = 270$

The number of part time employees = $270 * 5/9 = 150$

The total number of employees = $270 + 150 = 420$

Company D:

The difference between the number of full time and part time employees = $400 * 15/100 = 60$

The number of full time employees = $60 * 3/(4 - 3) = 60 * 3/1 = 180$

The number of part time employees = $180 * 4/3 = 240$

The total number of employees = $180 + 240 = 420$

Company E:

The difference between the number of full time and part time employees = $400 * 20/100 = 80$

The number of full time employees = $80 * 11/(11 - 9) = 80 * 11/2 = 440$

The number of part time employees = $440 * 9/11 = 360$

The total number of employees = $440 + 360 = 800$

Companies	The total number of employees	The number of full time employees	The number of part time employees
A	544	320	224
B	264	110	154
C	420	270	150
D	420	180	240
E	800	440	360

6) Answer: C

Required difference = $800 - 420 = 380$

7) Answer: A

The total number of employees in company D in April = $420 * 5/7 = 300$

The number of female employees in company D in April = $300 * 100/(100 + 150) = 300 * 100/250 = 120$

8) Answer: B

The total number of employees in company F = $264 + 36 = 300$

The number of full time employees in company F = $110 * 3/2 = 165$

The number of part time employees in company F = $300 - 165 = 135$

Required ratio = $165:135 = 11:9$

9) Answer: D

Required ratio = $320:360 = 8:9$

10) Answer: C

The number of female full time employees in company A = $320 * (100 - 62.5)/100 = 320 * 37.5/100 = 320 * 3/8 = 120$

The number of female part time employees in company A = $224 * (100 - 75)/100 = 224 * 25/100 = 56$

Required total = $120 + 56 = 176$

Directions (11-15):

Total number of buildings constructed in all months together = 1600

% of total buildings constructed in March = 20%

% of total buildings constructed in April = $35% - 20% = 15%$

% of total buildings constructed in May = $60% - 35% = 25%$

% of total buildings constructed in June = $70% - 60% = 10%$

% of total buildings constructed in July = $100% - 70% = 30%$

Total number of buildings constructed in March = $1600 * 20/100 = 320$

Total number of buildings constructed in April = $1600 * 15/100 = 240$

Total number of buildings constructed in May = $1600 * 25/100 = 400$

Total number of buildings constructed in June = $1600 * 10/100 = 160$

Total number of buildings constructed in July = $1600 * 30/100 = 480$

Total number of Residential buildings constructed in March = 180

Total number of Residential buildings constructed in April = 340 - 180 = 160

Total number of Residential buildings constructed in May = 490 - 340 = 150

Total number of Residential buildings constructed in June = 580 - 490 = 90

Total number of Residential buildings constructed in July = 830 - 580 = 250

Total number of Commercial buildings constructed in March = 320 - 180 = 140

Total number of Commercial buildings constructed in April = 240 - 160 = 80

Total number of Commercial buildings constructed in May = 400 - 150 = 250

Total number of Commercial buildings constructed in June = 160 - 90 = 70

Total number of Commercial buildings constructed in July = 480 - 250 = 230

Month	Total buildings constructed	Total Residential buildings constructed	Total Commercial buildings constructed
March	320	180	140
April	240	160	80
May	400	150	250
June	160	90	70
July	480	250	230

11) Answer: B

Required percentage = $80 / (150 + 250) * 100 = 20\%$

12) Answer: D

Required ratio = $(180 + 160) / 2 : (250 + 230) / 2 = 17:24$

13) Answer: A

Required difference = $(150 + 90) - 230 = 10$

14) Answer: C

Required sum = $(180 + 250) / 2 + (80 + 250) / 2 = 380$

15) Answer: D

Unsold number of Residential buildings in May = $150 * 80 / 100 = 120$

Unsold number of Commercial buildings in May = $250 * 60 / 100 = 150$

Required difference = $150 - 120 = 30$

Directions (16-20):

The expenditure of company A = $250000 * 24 / 100 = \text{Rs.}60000$

The expenditure of company B = $250000 * 30 / 100 = \text{Rs.}75000$

The expenditure of company C = $250000 * 14 / 100 = \text{Rs.}35000$

The expenditure of company D = $250000 * 20 / 100 = \text{Rs.}50000$

The expenditure of company E = $250000 * 12 / 100 = \text{Rs.}30000$

16) Answer: E

The profit of company D = $75000 / 5 = \text{Rs.}15000$

The income of company D = $50000 + 15000 = \text{Rs.}65000$

17) Answer: A

Required difference = $60000 - 35000 = \text{Rs.}25000$

18) Answer: D

The profit of company A = $60000 * 1/4 =$

Rs.15000

The income of company A = $60000 + 15000 =$

Rs.75000

The income of company F = $75000 * 80/100 =$

Rs.60000

19) Answer: B

Required percentage = $30000/75000 * 100 = 40\%$

20) Answer: C

The expenditure of company E in 2017 = $30000 * 130/100 = \text{Rs.}39000$

The income of company E in 2017 = Rs.50000

The profit of the company E in 2017 = $50000 -$

$39000 = \text{Rs.}11000$

Directions (21-25):

The ratio of number of visitors from H to F = 2: 1

$H = 2F$

The average number of visitors from A, B and E =

A,

$(A + B + E)/3 = A$

$A + B + E = 3A$

$B + E = 2A$

The number of visitors from G = 500

The number of visitors from D is 80 less than that of C, $C - D = 80$

$C = 80 + D$ ----- (1)

The average number of visitors from F and A is 160 less than that of visitors from C, $C - (F + A)/2 = 160$

The number of visitors from F and A are the same, $A = F$

The difference between number of visitors from B and E, $B \sim E = 120$.

E has more number of visitors than B, $E - B = 120$

A has less number of visitors than E, $A < E$,

Since $A = F$, $C - (F + F)/2 = 160$, $C - F = 160$ or $C - A = 160$

$C = 160 + A$

or

$C = 160 + F$ ----- (2)

Equating 1 and 2

$80 + D = 160 + F$, $F = D - 80$ or $A = D - 80$ (since $A = F$)

$H = 2F$

$H = 2(D - 80)$

$B + E = 2A$

$B + E = 2(D - 80)$

$D - 80 + 80 + D + D + 2(D - 80) + D - 80 + 500 + 2(D - 80) = 1700$

$8D + 100 = 1700$

$D = 200$

$H = 2(200 - 80) = 240$

$A = 200 - 80 = 120 = F$

$C = 80 + 200 = 280$

$B + E = 2(200 - 80) = 240$

$E - B = 120$

On solving above two equation we get $B = 60$, $E = 180$

Cities	Visitors
A	120
B	60
C	280
D	200
E	180
F	120
G	500
H	240

21) Answer: A

Number of male visitors from city D = $40/100 * 200 = 80$,

Number of female visitors from city D = 120

Number of female visitors from city E = $75\% \text{ of } 180 = 135$

Number of male visitors from city E = $180 - 135 = 45$

$45 / 120 * 100 = 37.5\%$

22) Answer: C

Average number of visitor from C, D, F and G =

$(280 + 200 + 120 + 500)/4$

$= 1100 / 4 = 275$

23) Answer: D

The ratio of the total number of visitors from B in

2010 to M in 2011 = 3: 7

$60 / M = 3/7$

$M = (7/3) * 60$

Total number of visitors from M = 140

The ratio of number of male visitors to female visitors from city M = 5: 9

Male visitors from M = $140 * 5/14 = 50$

Female visitors from M = $140 * 9/14 = 90$

Required difference = $90 - 50 = 40$

24) Answer: A

45% of visitor from city A do not belong to Shimla = $45/100 * 120 = 54$

45% of visitor from city C do not belong to Shimla = $45/100 * 280 = 126$

Required difference = $126 - 54 = 72$

40% of visitors from city E do not belong to Goa = $40/100 * 180 = 72$

60% of visitors from city G belong to Goa = $60/100 * 500 = 300$

Required sum = $300 + 72 = 372$

Required percentage = $72/372 * 100 = 19.35\% \sim 20\%$

25) Answer: C

The number of male visitors is twice that of the number of female visitors in all the cities

Cities	Visitors	Male	female
A	120	80	40
B	60	40	20
E	180	120	60
F	120	80	40
H	240	160	80

Average number of female visitors from B, H and A = $(20 + 80 + 40)/3 = 140/3$

Difference in the number of female visitors from F and E = 20

$$\text{Required ratio} = (140/3) / 20 = 7:3$$

26. Answer: A

Let the investment of Q = x

And the investment of P = 3500 – x

Ratio of the profit share of P, Q and R =

$$125:50:100 = 5:2:4$$

$$(3500 - x) * 12 / [x * 12 + 4000 * 6] = 5 / (2 + 4)$$

$$7000 - 2x = 5/6 * (2x + 4000)$$

$$42000 - 12x = 10x + 20000$$

$$x = 22000/22 = 1000$$

27. Answer: B

Present age of Q = x/3

$$P + 5 + Q + 5 = x$$

$$P + Q = x - 10$$

$$P + x/3 = x - 10$$

$$P = x - x/3 - 10 = (3x - x)/3 - 10 = 2x/3 - 10$$

$$R = 4/5 * x/3 = 4x/15$$

$$2x/3 - 10 + 4x/15 = 32$$

$$(10x + 4x)/15 = 42$$

$$14x/15 = 42$$

$$x = 45 \text{ years}$$

Present age of Q = 45/3 = 15 years

28. Answer: A

Total surface area of the cylinder = 1760cm²

$$\text{(i.e.) } 1760 = 2 * (22/7) * 7x * 10x$$

$$x * x = 4$$

$$x = 2 \text{ cm}$$

Radius of the cylinder = 2 * 7 = 14 cm

Radius of the cone = 3/2 * 14 = 21 cm

Height of the cone = 2/3 * 21 = 14 cm

$$\text{Volume} = 1/3 * 22/7 * 21 * 21 * 14$$

$$= 6468\text{cm}^3$$

29. Answer: A

Let the length of first train = a meters

According to question

$$a = \text{speed of train} \times 12$$

$$(a + 172) = \text{speed of train} \times 32$$

On dividing both equations

$$a / (a + 172) = 12/32$$

$$8a = 3a + 172 \times 3$$

$$5a = 516$$

$$a = 516/5 = 103.2 \text{ meters}$$

$$\text{Length of other train} = 25\% \text{ of } 103.2 + 2 \times 172 =$$

$$369.8 \text{ meters}$$

30. Answer: B

Pipes A and B together can fill the tank = 20 minutes

From statement I,

Pipes A and C together can fill the tank = 22(1/2) minutes

So, Statement I alone is not sufficient to answer the question.

From statement II,

Let pipe A can fill the tank = 3x

And pipe B can fill the tank = 6x

$$1/3x + 1/6x = 1/20$$

$$(2 + 1) * 20 = 6x$$

$$x = 3 * 20/6$$

$$x = 10$$

Pipe A can fill the tank = 3 * 10 = 30 minutes

Pipe B can fill the tank = 6 * 10 = 60 minutes

Pipe C can fill the tank = 60 * 3/2 = 90 minutes

Pipes B and C together can fill the tank = $1/60 + 1/90 = (3 + 2)/180 = 5/180 = 1/36 = 36$ minutes
So, statement II alone is sufficient to answer the question.

31. Answer: A

From Quantity I,

Milk in 45 liters = $5/9 * 45 = 25$ liters

Water in 45 liters = $4/9 * 45 = 20$ liters

Required percentage = $(20 + 10)/(45 + 10) * 100$

= 54.54%

From Quantity II,

Water in 40 liters = $40 * 3/5 = 24$ liters

Acid in 40 liters = $40 * 2/5 = 16$ liters

Water in 20 liters = $20 * 3/5 = 12$ liters

Acid in 20 liters = $20 * 2/5 = 8$ liters

Final quantity of water = $24 - 12 + 20 = 32$

Final quantity of acid = $16 - 8 = 8$ liters

Required percentage = $8/(8 + 32) * 100 = 20\%$

Quantity I > Quantity II

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Directions (1-5): Study the following information carefully and answer the given questions.

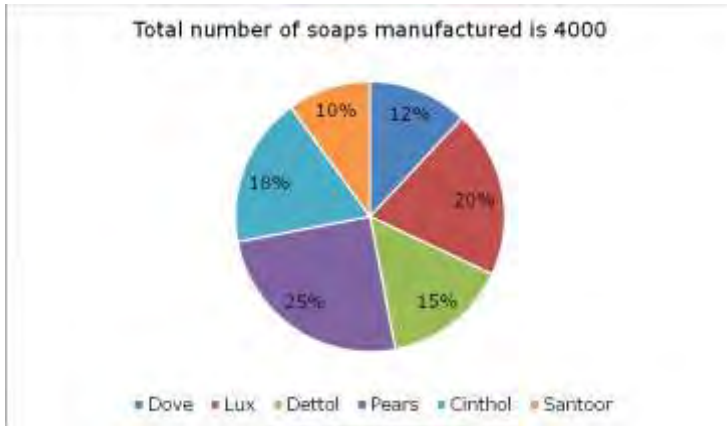
The given pie chart shows the percentage distribution of the total number of soaps

manufactured by six different companies i.e.

Dove, Lux, Dettol, Pears, Cinthol and Santoor in January.

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1) The total number of soaps manufactured by Cinthol is what percentage more/less than the total number of soaps manufactured by Lux?

- a) 50% more
- b) 70% less
- c) 40% more
- d) 10% less
- e) 25% more

2) If the total number of soaps manufactured by Dove in March is 25% more than that of January and 20% more than that of Dettol in March, then find the ratio of the total number of soaps manufactured by Dettol in January to March.

- a) 6:5
- b) 3:4
- c) 6:7
- d) 8:5
- e) 5:6

3) If the ratio of the total number of soaps manufactured by Cinthol to Himalaya is 8:5 and the number of soaps unsold by Himalaya is $\frac{1}{5}$ th of the total number of soaps manufactured by

Pears, then find the total number of soaps sold by Himalaya.

- a) 140
- b) 90
- c) 100
- d) 190
- e) 250

4) Find the difference between the total number of soaps manufactured by Lux and Santoor together and the total number of soaps manufactured by Pears.

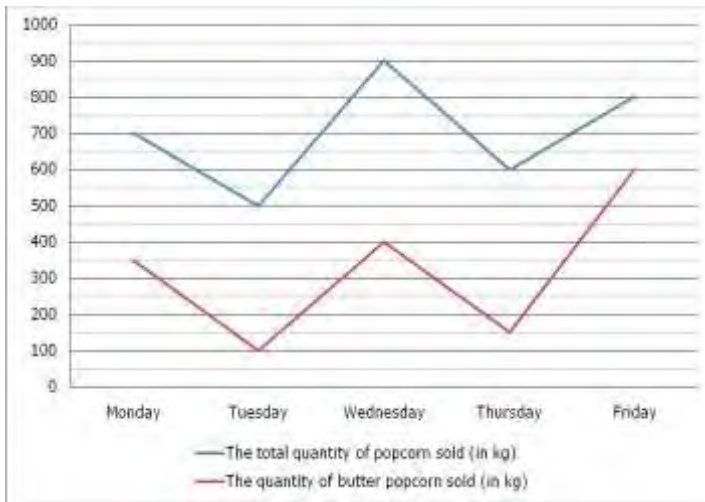
- a) 200
- b) 150
- c) 360
- d) 260
- e) 180

5) Out of the total number of soaps manufactured by Dove and Santoor, $x\%$ and 70% of the soaps are sold for Rs.30 and Rs.50 respectively and the remaining soaps are unsold. If the total amount obtained by selling both Dove and Santoor soaps together is Rs.21200, then find the value of x .

- a) 20
- b) 50
- c) 15
- d) 30
- e) 45

Directions (6-10): Study the following information carefully and answer the given questions.

The given line graph shows the total quantity of popcorn (butter+caramel) sold by shop A on five different days i.e. Monday, Tuesday, Wednesday, Thursday and Friday and also given the quantity of butter popcorn sold by shop A on these five days.



6) Find the difference between the quantity of butter popcorn sold on Monday and the quantity of caramel popcorn sold on Friday.

- a) 100 kg
- b) 120 kg
- c) 150 kg
- d) 180 kg
- e) 110 kg

7) If the ratio of the total quantity of popcorn sold to unsold on Thursday is 3:1 and the ratio of the quantity of caramel popcorn sold to unsold on Thursday is 7:2, then find the quantity of butter popcorn unsold on Thursday.

- a) 60 kg
- b) 45 kg

- c) 80 kg
- d) 50 kg
- e) 35 kg

8) If the quantity of caramel popcorn sold on Sunday is three times the quantity of butter popcorn sold on Tuesday, then find the ratio of the quantity of caramel popcorn sold on Monday to Sunday.

- a) 7:6
- b) 4:5
- c) 3:2
- d) 8:9
- e) 7:4

9) The quantity of caramel popcorn sold on Thursday is what percentage of the total quantity of popcorn sold on Wednesday?

- a) 90%
- b) 40%
- c) 75%
- d) 50%
- e) 80%

10) If the quantity of chocolate popcorn sold on Sunday is $\frac{9}{10}$ th of the quantity of caramel popcorn sold on Wednesday and the ratio of the quantity of salted popcorn sold on Sunday to the quantity of butter popcorn sold on Friday is 7:12, then find the total quantity of chocolate and salted popcorn sold on Sunday.

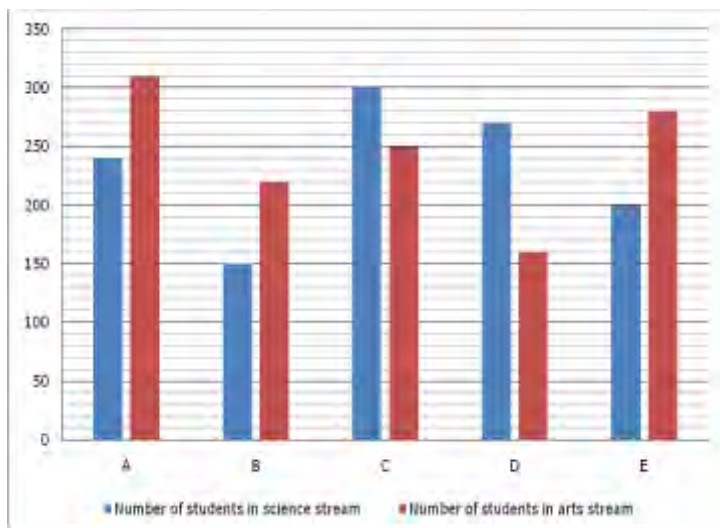
- a) 640 kg
- b) 800 kg

- c) 750 kg
- d) 580 kg
- e) 680 kg

Directions (11-15): Study the following information carefully and answer the questions.

The bar graph depicts the number of students in two different streams namely science and art streams in five different colleges i.e. A, B, C, D and E.

Note: Total number of students = Number of students in science stream + Number of students in art stream + Number of students in commerce stream



11) If the total number of students in college A is 720 and the ratio of the number of boys to girls in commerce stream in college A is 3:2, then find the number of girls in commerce stream in college A.

- a) 74
- b) 36
- c) 52

- d) 68
- e) 44

12) The number of students in science stream in college D is how much more than the number of students in arts stream in college B?

- a) 50
- b) 70
- c) 30
- d) 90
- e) 60

13) If the ratio of the number of boys to girls in science and art streams in college E is 3:1 and 5:2 respectively and the average number of girls in science, arts and commerce streams in college E is 65, then find the number of girls in commerce stream in college E.

- a) 125
- b) 90
- c) 65
- d) 105
- e) 50

14) The number of students in science stream in college A is what percentage more than the number of students in the same stream in college E?

- a) 45%
- b) 20%
- c) 70%
- d) 50%
- e) 35%

15) If the total number of students in college F is 150% of the total number of students in college C and the number of students in both arts and commerce streams in college C is equal, then find the total number of students in college F.

- a) 1500
- b) 750
- c) 900
- d) 1050
- e) 1200

16) Manoj invested Rs. x in SI at the rate of 16% per annum for 2 years and Arun invested Rs. $(x+1000)$ in CI at the rate of 10% per annum for 2 years. If the ratio of the total amount received by Manoj to Arun is 8:11, then find the value of x .

- a) 3000
- b) 1500
- c) 4000
- d) 2000
- e) None of these

17) Mano and Raja started a business with an investment of Rs.9200 and Rs.6900 and Raja invested for 8 months. If the profit share of Raja is 40% of the profit share of Mano, then find the investment period of Mano.

- a) 15 months
- b) 1 year
- c) 10 months
- d) 9 months
- e) None of these

18) A jar contains a mixture of acid and water, containing 54 liters of acid. If 12 liters of acid and 26 liters of water is added to the mixture, then the ratio of acid to water becomes 3:2. Find the initial quantity of water in the jar.

- a) 20 liters
- b) 18 liters
- c) 32 liters
- d) 15 liters
- e) 24 liters

19) The average mark scored by 45 students in the exam is 80. If the score of three students is wrongly entered as 70, 48 and 62 instead of 84, 90 and 96 respectively, then find the actual average marks scored by 45 students.

- a) 82
- b) 78
- c) 83
- d) 81
- e) 79

20) The Marked price of the table is Rs.1000 more than its cost price and the discount on its marked price is 20%. If he gets a profit of 12%, then find the cost price of the table.

- a) Rs.1600
- b) Rs.3400
- c) Rs.2500
- d) Rs.1800
- e) None of these

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Answer Key with Explanation

Directions (1-5):

Total number of soaps manufactured by Dove =
 $4000 * 12/100 = 480$

Total number of soaps manufactured by Lux =
 $4000 * 20/100 = 800$

Total number of soaps manufactured by Dettol =
 $4000 * 15/100 = 600$

Total number of soaps manufactured by Pears =
 $4000 * 25/100 = 1000$

Total number of soaps manufactured by Cinthol
 $= 4000 * 18/100 = 720$

Total number of soaps manufactured by Santoor
 $= 4000 * 10/100 = 400$

Companies	Total number of soaps manufactured
Dove	480
Lux	800
Dettol	600
Pears	1000
Cinthol	720
Santoor	400

1) Answer: D

Required percentage = $(720 - 800)/800 * 100 =$
 $80/800 * 100 = 10\%$ less

2) Answer: A

Total number of soaps manufactured by Dove in
 March = $480 * 125/100 = 600$

Total number of soaps manufactured by Dettol in
 March = $600 * 100/120 = 500$

Required ratio = $600:500 = 6:5$

3) Answer: E

Total number of soaps manufactured by
 Himalaya = $720 * 5/8 = 450$

Number of soaps unsold by Himalaya = $1000/5 =$
 200

Number of soaps sold by Himalaya = $450 - 200$
 $= 250$

4) Answer: A

Total number of soaps manufactured by Lux and
 Santoor together = $800 + 400 = 1200$

Required difference = $1200 - 1000 = 200$

5) Answer: B

$480 * x/100 * 30 + 400 * 70/100 * 50 = 21200$

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$$48x * 3 = 21200 - 14000$$

$$x = 7200 / (48 * 3) = 50$$

Directions (6-10):

The quantity of caramel popcorn sold on Monday

$$= 700 - 350 = 350 \text{ kg}$$

The quantity of caramel popcorn sold on

$$\text{Tuesday} = 500 - 100 = 400 \text{ kg}$$

The quantity of caramel popcorn sold on

$$\text{Wednesday} = 900 - 400 = 500 \text{ kg}$$

The quantity of caramel popcorn sold on

$$\text{Thursday} = 600 - 150 = 450 \text{ kg}$$

The quantity of caramel popcorn sold on Friday

$$= 800 - 600 = 200 \text{ kg}$$

Days	The total quantity of popcorn sold (in kg)	The quantity of butter popcorn sold (in kg)	The quantity of caramel popcorn sold (in kg)
Monday	700	350	350
Tuesday	500	100	400
Wednesday	900	400	500
Thursday	600	150	450
Friday	800	600	200

6) Answer: C

$$\text{Required difference} = 350 - 200 = 150 \text{ kg}$$

7) Answer: D

The total quantity of popcorn unsold on

$$\text{Thursday} = 600 * 1/4 = 150 \text{ kg}$$

The quantity of caramel popcorn unsold on

$$\text{Thursday} = 450 * 2/9 = 100 \text{ kg}$$

The quantity of butter popcorn unsold on

$$\text{Thursday} = 150 - 100 = 50 \text{ kg}$$

8) Answer: A

The quantity of Caramel popcorn sold on

$$\text{Sunday} = 100 * 3 = 300 \text{ kg}$$

$$\text{Required ratio} = 350:300 = 7:6$$

9) Answer: D

$$\text{Required percentage} = 450/900 * 100 = 50\%$$

10) Answer: B

The quantity of chocolate popcorn sold on

$$\text{Sunday} = 500 * 9/10 = 450$$

The quantity of salted popcorn sold on Sunday =

$$600 * 7/12 = 350$$

$$\text{Required total} = 350 + 450 = 800 \text{ kg}$$

Directions (11-15):**11) Answer: D**

Number of students in commerce stream in

$$\text{college A} = 720 - (240 + 310) = 720 - 550 = 170$$

Number of girls in commerce stream in college A

$$= 170 * 2/(3 + 2) = 170 * 2/5 = 68$$

12) Answer: A

$$\text{Required difference} = 270 - 220 = 50$$

13) Answer: C

Number of girls in science stream in college E =

$$200 * 1/(3 + 1) = 200 * 1/4 = 50$$

Number of girls in art stream in college E = 280 *

$$2/(5 + 2) = 280 * 2/7 = 80$$

Total number of girls in college E = 65 * 3 = 195

Number of girls in commerce stream in college E

$$= 195 - (50 + 80) = 195 - 130 = 65$$

14) Answer: B

$$\text{Required percentage} = (240 - 200)/200 * 100 = 40/2 = 20\%$$

15) Answer: E

$$\text{Total number of students in college C} = 300 + 250 + 250 = 800$$

$$\text{Total number of students in college F} = 800 * 150/100 = 800 * 3/2 = 1200$$

16) Answer: D

$$x * 16 * 2/100 + x = 8/11 * (x + 1000) * (1 + 10/100)^2$$

$$32x + 100x = 8/11 * (x + 1000) * (110/100)^2 * 100$$

$$132x = 88x + 8800$$

$$x = 8800/44 = 2000$$

17) Answer: A

Let the investment period of Mano = a

Ratio of the profit share of Mano to Raja =

$$100:40 = 5:2$$

$$(9200 * a)/(6900 * 8) = 5/2$$

$$a = 15$$

18) Answer: B

Let the quantity of water in the jar = a

$$(54 + 12)/(a + 26) = 3/2$$

$$a + 26 = 66 * 2/3$$

$$a = 44 - 26 = 18 \text{ liters}$$

19) Answer: A

The actual average marks scored by the

$$\text{students} = (45 * 80 - (70 + 48 + 62) + (84 + 90 + 96))/45 = (3600 - 180 + 270)/45 = 3690/45 = 82$$

20) Answer: C

Let the cost price of the table = x

$$(x + 1000) * 80/100 = x * 112/100$$

$$x + 1000 = x * 112/100 * 100/80$$

$$10x + 10000 = 14x$$

$$x = 10000/4 = 2500$$

Score Booster

Directions (1-5): What approximate value should come in the place of (?) in the following questions?

1) $\sqrt{(51.8 * 13.2) + 64.04} = \sqrt{?} + 79.05$

a) 225

b) 324

c) 484

d) 121

e) 289

2) $? \% \text{ of } 484.2 + 240.84 = 50.2\% \text{ of } 724$

a) 25

b) 19

c) 38

d) 22

e) 17

3) $124.95 \div (7.2^2 - 71.98 + \sqrt{785}) = ?^2 \div 16.2$

a) 35

b) 13

c) 20

d) 18

e) 26

4) $750.57 - 314.02 + ? = 909.4 - 253.65$

a) 146

b) 218

c) 105

d) 254

e) 192

5) $330.33 \div 11.11 + ? * 25.04 = 15.2 * 21.89$

a) 35

b) 62

c) 27

d) 40

e) 12

Directions (6-10): What value should come in the place of (?) in the following number series?

6) 7, 6, 10, 27, 104, ?

a) 412

b) 309

c) 525

d) 465

e) 515

7) 92, ?, 128, 146, 164, 182

a) 110

b) 104

c) 98

d) 100

e) 112

8) 15, 40, 89, 170, ?, 460

a) 325

b) 274

c) 291

d) 340

e) 309

9) ?, 167, 138, 107, 74, 39

a) 170

b) 194

c) 182

d) 179

e) 187

10) 66, ?, 96, 114, 134, 156

a) 83

b) 69

c) 74

d) 80

e) 78

Directions (11-15): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

11)

I) $x^2 - 25x + 100 = 0$

II) $y^2 - 17y + 70 = 0$

a) $x > y$ b) $x \geq y$ c) $x = y$ or relationship can't be determined.d) $x < y$ e) $x \leq y$

12)

I) $x^2 = 2x + 48$

II) $y^2 + 15y + 54 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

13)

I) $x^2 + 21x + 108 = 0$

II) $y^2 + 9y + 20 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

14)

I) $4x^2 - 19x + 22 = 0$

II) $2y^2 - 7y + 6 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

15)

I) $3x^2 - 16x + 20 = 0$

II) $5y^2 + 9y + 4 = 0$

- a) $x > y$
- b) $x \geq y$

c) $x = y$ or relationship can't be determined.d) $x < y$ e) $x \leq y$

Directions (16-20): Find out the wrong number in the following number series. 16) 174, 160, 182, 149, 193, 138

a) 193

b) 138

c) 174

d) 182

e) 160

17) 32, 160, 40, 200, 50, 225

a) 200

b) 160

c) 40

d) 50

e) 225

18) 4, 9, 22, 46, 94, 190

a) 4

b) 9

c) 46

d) 94

e) 190

19) 120, 95, 135, 105, 150, 125

a) 125

b) 95

c) 135

d) 120

e) 105

20) 406, 407, 410, 415, 422, 433

- a) 410
- b) 406
- c) 422
- d) 415
- e) 433

Directions (21-25): What value should come in the place of (?) in the following questions?

21) $(1080 - 420) \div 22 * ? + 12^2 = 504$

- a) 30
- b) 25
- c) 36
- d) 12
- e) 40

22) $\sqrt{(144 \div 4 + 15 * 12 + 108)} * 2 = ?^2$

- a) 6
- b) 9
- c) 5
- d) 3

e) 4

23) $35\% \text{ of } 800 - (720 \div 9) = ? + 148$

- a) 44
- b) 68
- c) 52
- d) 31
- e) 75

24) $350 \div \sqrt{81} * 270 \div 7 - ? = 15 * 70$

- a) 200
- b) 450
- c) 360
- d) 250
- e) 180

25) $62.5\% \text{ of } 400 + 10\% \text{ of } 620 = ?^3 - 200$

- a) 9
- b) 5
- c) 3
- d) 2
- e) 8

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Answer Key with Explanation

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1) Answer: D

$$\sqrt{(51.8 * 13.2) + 64.04} = \sqrt{?} + 79.05$$

$$\sqrt{(52 * 13) + 64} = \sqrt{?} + 79$$

$$\sqrt{?} = \sqrt{676 + 64} - 79$$

$$\sqrt{?} = 26 - 15 = 11$$

$$? = 121$$

2) Answer: A

$$?\% \text{ of } 484.2 + 240.84 = 50.2\% \text{ of } 724$$

$$? * 484/100 + 241 = 50 * 724/100$$

$$? * 484/100 = 362 - 241$$

$$? = 121 * 100/484 = 25$$

3) Answer: C

$$124.95 \div (7.2^2 - 71.98 + \sqrt{785}) = ?^2 \div 16.2$$

$$125 \div (49 - 72 + 28) = ?^2 \div 16$$

$$?^2 = 125 \div 5 * 16 = 400 = 20^2$$

$$? = 20$$

4) Answer: B

$$750.57 - 314.02 + ? = 909.4 - 253.65$$

$$751 - 314 + ? = 909 - 254$$

$$? = 655 - 437 = 218$$

5) Answer: E

$$330.33 \div 11.11 + ? * 25.04 = 15.2 * 21.89$$

$$330 \div 11 + ? * 25 = 15 * 22$$

$$? * 25 = 330 - 30 = 300$$

$$? = 300/25 = 12$$

6) Answer: E

$$7 * 1 - 1 = 6$$

$$6 * 2 - 2 = 10$$

$$10 * 3 - 3 = 27$$

$$27 * 4 - 4 = 104$$

$$104 * 5 - 5 = 515$$

7) Answer: A

$$92 + 18 = 110$$

$$110 + 18 = 128$$

$$128 + 18 = 146$$

$$146 + 18 = 164$$

$$164 + 18 = 182$$

8) Answer: C

$$15 + 5^2 = 40$$

$$40 + 7^2 = 89$$

$$89 + 9^2 = 170$$

$$170 + 11^2 = 291$$

$$291 + 13^2 = 460$$

9) Answer: B

$$194 - 27 = 167$$

$$167 - 29 = 138$$

$$138 - 31 = 107$$

$$107 - 33 = 74$$

$$74 - 35 = 39$$

10) Answer: D

$$66 \quad 80 \quad 96 \quad 114 \quad 134 \quad 156$$

$$+14 \quad +16 \quad +18 \quad +20 \quad +22$$

$$+2 \quad +2 \quad +2 \quad +2$$

11) Answer: C

$$x^2 - 25x + 100 = 0$$

$$x^2 - 20x - 5x + 100 = 0$$

$$x(x - 20) - 5(x - 20) = 0$$

$$x = + 20, + 5$$

$$y^2 - 17y + 70 = 0$$

$$y^2 - 10y - 7y + 70 = 0$$

$$y(y - 10) - 7(y - 10) = 0$$

$$y = + 10, + 7$$

The relationship between x and y can't be determined

12) Answer: B

$$x^2 = 2x + 48$$

$$x^2 - 2x - 48 = 0$$

$$x^2 - 8x + 6x - 48 = 0$$

$$x(x - 8) + 6(x - 8) = 0$$

$$x = + 8, - 6$$

$$y^2 + 15y + 54 = 0$$

$$y^2 + 6y + 9y + 54 = 0$$

$$y(y + 6) + 9(y + 6) = 0$$

$$y = - 6, - 9$$

Hence, $x \geq y$

13) Answer: D

$$x^2 + 21x + 108 = 0$$

$$x^2 + 9x + 12x + 108 = 0$$

$$x(x + 9) + 12(x + 9) = 0$$

$$x = - 9, - 12$$

$$y^2 + 9y + 20 = 0$$

$$y^2 + 4y + 5y + 20 = 0$$

$$y(y + 4) + 5(y + 4) = 0$$

$$y = - 4, - 5$$

Hence, $x < y$

14) Answer: B

$$4x^2 - 19x + 22 = 0$$

$$4x^2 - 8x - 11x + 22 = 0$$

$$4x(x - 2) - 11(x - 2) = 0$$

$$x = + 2, + 11/4$$

$$x = + 2, + 2.75$$

$$2y^2 - 7y + 6 = 0$$

$$2y^2 - 4y - 3y + 6 = 0$$

$$2y(y - 2) - 3(y - 2) = 0$$

$$y = + 2, + 3/2 = + 2, + 1.5$$

Hence, $x \geq y$

15) Answer: A

$$3x^2 - 16x + 20 = 0$$

$$3x^2 - 6x - 10x + 20 = 0$$

$$3x(x - 2) - 10(x - 2) = 0$$

$$x = + 2, + 10/3$$

$$x = + 2, + 3.33$$

$$5y^2 + 9y + 4 = 0$$

$$5y^2 + 5y + 4y + 4 = 0$$

$$5y(y + 1) + 4(y + 1) = 0$$

$$y = - 1, - 4/5$$

$$y = - 1, - 0.8$$

Hence, $x > y$

16) Answer: C

$$171 - 11 = 160$$

$$160 + 22 = 182$$

$$182 - 33 = 149$$

$$149 + 44 = 193$$

$$193 - 55 = 138$$

17) Answer: E

$$32 * 5 = 160$$

$$160 \div 4 = 40$$

$$40 * 5 = 200$$

$$200 \div 4 = 50$$

$$50 * 5 = 250$$

18) Answer: B

$$4 * 2 + 2 = 10$$

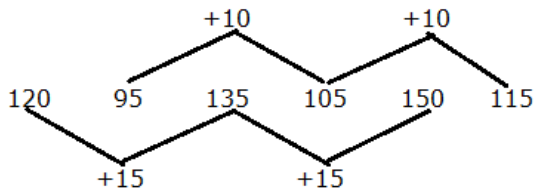
$$10 * 2 + 2 = 22$$

$$22 * 2 + 2 = 46$$

$$46 * 2 + 2 = 94$$

$$94 * 2 + 2 = 190$$

19) Answer: A



20) Answer: B

$$405 + 2 = 407$$

$$407 + 3 = 410$$

$$410 + 5 = 415$$

$$415 + 7 = 422$$

$$422 + 11 = 433$$

21) Answer: D

$$(1080 - 420) \div 22 * ? + 12^2 = 504$$

$$660/22 * ? = 504 - 144$$

$$? = 360/30 = 12$$

22) Answer: A

$$\sqrt{(144 \div 4 + 15 * 12 + 108) * 2} = ?^2$$

$$?^2 = \sqrt{(36 + 180 + 108) * 2}$$

$$?^2 = \sqrt{324 * 2}$$

$$?^2 = 18 * 2 = 36 = 6^2$$

$$? = 6$$

23) Answer: C

$$35\% \text{ of } 800 - (720 \div 9) = ? + 148$$

$$280 - 80 = ? + 148$$

$$? = 200 - 148 = 52$$

24) Answer: B

$$350 \div \sqrt{81} * 270 \div 7 - ? = 15 * 70$$

$$350/9 * 270/7 - ? = 1050$$

$$? = 1500 - 1050 = 450$$

25) Answer: E

$$62.5\% \text{ of } 400 + 10\% \text{ of } 620 = ?^3 - 200$$

$$?^3 = 5/8 * 400 + 10 * 620/100 + 200$$

$$?^3 = 250 + 62 + 200 = 512 = 8^3$$

$$? = 8$$

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Directions (1-5): Read the following information carefully and answer the questions.

The given table chart shows the total number of balloons sold in five different shops namely A, B, C, D and E and also given the ratio of the number of pearl balloons to matte balloons sold in these shops.

Note: Total number of balloons sold = Number of pearl balloons sold + Number of matte balloons sold

Shop	Total number of balloons sold	Ratio of the number of pearl balloons to matte balloons sold
A	1200	7:5
B	1200	3:5
C	900	2:1
D	1760	5:6
E	720	5:4

1) Find the ratio of the number of pearl balloons sold in Shop B to the number of matte balloons sold in Shop C.

- a) 4:3
- b) 3:5
- c) 2:1
- d) 3:2
- e) None of these

2) The number of matte balloons sold in Shop E is what percentage of the number of pearl balloons sold in Shop D?

- a) 40%
- b) 45%
- c) 50%
- d) 48%
- e) None of these

3) Find the difference between the total number of pearl balloons sold in Shop A and Shop C together and the number of matte balloons sold in Shop D.

- a) 320
- b) 280
- c) 340
- d) 350
- e) None of these

4) If the number of pearl balloons sold in Shop F is 15% more than that of Shop E and the number of matte balloons sold in Shop F is equal to the average number of matte balloons sold in Shop C and Shop D, then find the total number of balloons sold in Shop F.

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- a) 1090
 b) 1100
 c) 1280
 d) 1140
 e) None of these

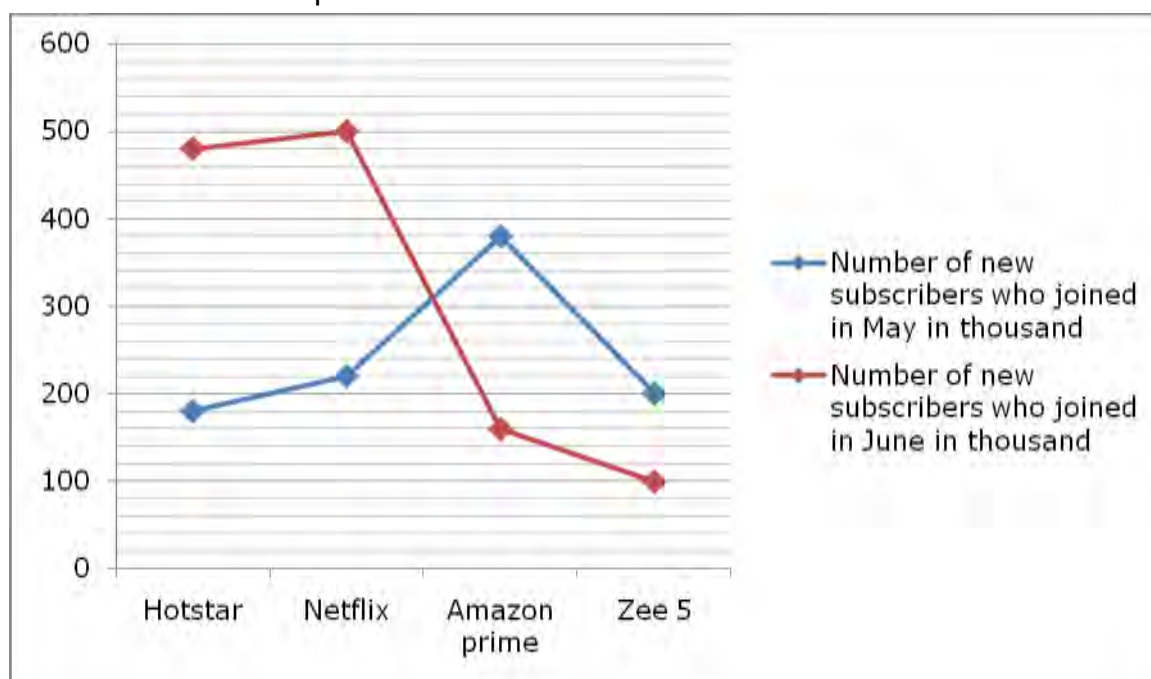
5) Out of the total number of balloons sold in Shop C, 40% of the balloons are damaged and the ratio of the number of damaged pearl to

matte balloons sold in Shop C is 5:4. Find the number of undamaged matte balloons sold in Shop C.

- a) 200
 b) 240
 c) 160
 d) 140
 e) None of these

Directions (6-10): Read the following information carefully and answer the questions.

The given line graph shows the number of new subscribers who joined in four different platforms namely Hotstar, Netflix, Amazon prime, and Zee 5 in May and also given the number of new subscribers who joined in the June month in these platforms.



6) If the number of new subscribers in Hotstar in May is 15% of the total number of subscribers in Hotstar in May, then find the total number of subscribers in Hotstar in May. (in thousands)

- a) 1300
 b) 1200

- c) 1100
 d) 1000
 e) None of these

7) If the number of new subscribers who joined Hotstar in July is 25% more than that of June

and the number of new subscribers who joined Amazon prime in July is 20% more than that of May, then find the sum of the number of new subscribers who joined Hotstar and Amazon prime in July.

- a) 1178000
- b) 1056000
- c) 1742000
- d) 1850000
- e) None of these

8) Find the ratio of the number of new subscribers who joined Netflix in June to the number of new subscribers who Joined Amazon prime in June.

- a) 17:12
- b) 12:11
- c) 8:17
- d) 25:8
- e) None of these

9) The number of new subscribers who joined hotstar in June is what percentage more/less than the number of new subscribers who joined Zee 5 in May?

- a) 140% more
- b) 100% less
- c) 120% more
- d) 110% less
- e) None of these

10) Find the difference between the number of new subscribers who joined Netflix in May and

the number of new subscribers who joined Zee 5 in June.

- a) 120000
- b) 130000
- c) 140000
- d) 150000
- e) None of these

11) The ratio of the investment of A to B is 3:4. A invested in SI at 30% rate of interest for R/5 years and B invested in CI at R% rate of interest for 2 years. Find the value of R, if the ratio of the interest obtained by A to B is 2:1.

- a) 15
- b) 25
- c) 20
- d) 18
- e) None of these

12) Average present age of A, B and C is 20 years and the average age of A and B before 4 years is 2 years more than the present age of C. Average present age of A and C is 18 years. Find the age of B before 6 years.

- a) 18 years
- b) 20 years
- c) 15 years
- d) 24 years
- e) None of these

13) A spends x% of his monthly income and B saves $(x - 55)\%$ of his monthly income. The expenditure of B is Rs.37500 and the monthly

income of A is Rs.40000. Find the savings of A, if the income of A is 80% of the income of B.

- a) Rs.8000
- b) Rs.12000
- c) Rs.9000
- d) Rs.10000
- e) None of these

14) A and B entered into a partnership with an investment of Rs.x and $(x + 1500)$ and they invested for the same period of time. If the total profit obtained is Rs.22000 and A obtained a profit of $\frac{4x}{3}$, find the investment of B.

- a) Rs.12000
- b) Rs.7500
- c) Rs.6000
- d) Rs.9000
- e) None of these

15) A and B started a work together and after 5 days A left the work and B completed the remaining work in 13 days. The total wages to be obtained by both is Rs.3200. Find the wages obtained by B, if the time taken by B alone to complete the work is 24 days.

- a) Rs.1600
- b) Rs.2000
- c) Rs.2400
- d) Rs.800
- e) None of these

16) A train of length x m crosses a bridge of $(x - 60)$ m in 14 seconds and the train also crosses a

platform of length $1.5x$ in 20 seconds. Find the speed of the train in km/hr.

- a) 54 km/hr
- b) 108 km/hr
- c) 96 km/hr
- d) 100 km/hr
- e) None of these

17) The time taken by the boat to cover x km in upstream is 5 hours more than the time taken by the boat to cover the same distance in downstream. If the time taken by the boat to cover x km is 12 hours in still water and the speed of the current is 4 km/hr, then find the downstream speed of the boat.

- a) 24 km/hr
- b) 20 km/hr
- c) 16 km/hr
- d) 18 km/hr
- e) None of these

18) The base and the hypotenuse of the right angled triangle is 9 m and 41 m respectively. Find the area of the right angled triangle.

- a) 200 m^2
- b) 180 m^2
- c) 225 m^2
- d) 164 m^2
- e) None of these

19) A vessel contains 60 liters of milk and x liters of water. If $(\frac{x}{2})$ liters of milk is added, then the ratio of milk to water becomes 2:1. If 20%

mixture is removed and $4\frac{4}{5}$ liters of milk is added, then find the ratio of milk to water in the final mixture.

- a) 5:2
- b) 4:3
- c) 3:1
- d) 5:3
- e) None of these

20) A shopkeeper had 10 pencils and 15 pens and he sold the pencils at a loss of 27% and

pens at a profit of 20% and he gained neither profit nor loss on the whole. Find the selling price of 2 pens at a profit of 20%, if the cost price of each pencil is Rs.2 more than that of pen.

- a) Rs.42.8
- b) Rs.44.4
- c) Rs.43.2
- d) Rs.40.6
- e) None of these

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Answer Key with Explanation

Directions (1-5):

Shop A:

Number of pearl balloons sold = $1200 * \frac{7}{12} = 700$

Number of matte balloons sold = $1200 - 700 = 500$

Shop B:

Number of pearl balloons sold = $1200 * \frac{3}{8} = 450$

Number of matte balloons sold = $1200 - 450 = 750$

Shop C:

Number of pearl balloons sold = $900 * \frac{2}{3} = 600$

Number of matte balloons sold = $900 - 600 = 300$

Shop D:

Number of pearl balloons sold = $1760 * \frac{5}{11} = 800$

Number of matte balloons sold = $1760 - 800 = 960$

Shop E:

Number of pearl balloons sold = $720 * 5/9 = 400$

Number of matte balloons sold = $720 - 400 = 320$

Shop	Number of pearl balloons sold	Number of matte balloons sold
A	700	500
B	450	750
C	600	300
D	800	960
E	400	320

1) Answer: D

Required ratio = $450:300 = 3:2$

2) Answer: A

Required percentage = $320/800 * 100 = 40\%$

3) Answer: C

Required difference = $(700 + 600) - 960 = 1300 - 960 = 340$

4) Answer: A

Number of pearl balloons sold in Shop F = $400 * 115/100 = 460$

Number of matte balloons sold in Shop F = $(300 + 960)/2 = 1260/2 = 630$

Total number of balloons sold in Shop F = $460 + 630 = 1090$

5) Answer: D

Total number of damaged balloons sold in Shop C = $900 * 40/100 = 360$

Number of damaged matte balloons sold in Shop C = $360 * 4/9 = 160$

Number of damaged matte balloons sold in Shop C = $300 - 160 = 140$

Directions (6-10):**6) Answer: B**

Total number of subscribers in Hotstar in May = $180 * 100/15 = 1200$ (in thousands)

7) Answer: B

Number of new subscribers who joined Hotstar in July = $480 * 125/100 = 600$ (in thousands)

Number of new subscribers who joined Amazon prime in July = $380 * 120/100 = 456$ (in thousands)

Required sum = $600 + 456 = 1056$ (in thousands)

8) Answer: D

Required ratio = $500:160 = 25:8$

9) Answer: A

Required percentage = $(480 - 200)/200 * 100 = 280/200 * 100 = 140\%$ more

10) Answer: A

Required difference = $220000 - 100000 = 120000$

11) Answer: B

Investment of A = $3x$

Investment of B = $4x$

$(3x * 30/100 * R/5)/(4x * (1 + R/100)^2 - 4x) = 2/1$

$$3x * 30/100 * R/5 = 2 * [4x * ((100 + R)/100)^2 - 1]$$

$$3x * 30/100 * R/5 = 2 * [4x * (100^2 + R^2 + 200R - 100^2)/100^2]$$

$$3x * 30/100 * R/5 = 8x * (R^2 + 200R)/100^2$$

$$450R = 2R^2 + 400R$$

$$2R^2 = 50R$$

$$R = 25$$

12) Answer: A

$$A + B + C = 60$$

$$(A - 4 + B - 4)/2 = C + 2$$

$$(A + B - 8) = 2C + 4$$

$$A + B = 2C + 12$$

$$2C + 12 + C = 60$$

$$3C = 48$$

$$C = 16 \text{ years}$$

$$A + C = 18 * 2$$

$$A + C = 36$$

$$A = 36 - 16 = 20 \text{ years}$$

$$20 + B + 16 = 60$$

$$B = 60 - 36 = 24 \text{ years}$$

$$\text{Age of B before 6 years} = 24 - 6 = 18 \text{ years}$$

13) Answer: A

$$\text{Income of A} = \text{Rs.}40000$$

$$\text{Income of B} = 40000 * 100/80 = \text{Rs.}50000$$

$$\text{Expenditure of B} = 50000 * (100 - x + 55)/100 = 500 * (155 - x)$$

$$500 * (155 - x) = 37500$$

$$155 - x = 75$$

$$x = 80\%$$

$$\text{Savings of A} = 40000 * (100 - x)/100 = 40000 * (100 - 80)/100 = 40000 * 20/100 = \text{Rs.}8000$$

14) Answer: D

$$x/(x + 1500) = (4x/3)/(22000 - 4x/3)$$

$$1/(x + 1500) = 4/3 * (66000 - 4x)/3$$

$$66000 - 4x = 4x + 6000$$

$$8x = 60000$$

$$x = \text{Rs.}7500$$

$$\text{Investment of B} = 7500 + 1500 = \text{Rs.}9000$$

15) Answer: C

$$5/A + 5/24 + 13/24 = 1$$

$$5/A = 1 - 18/24$$

$$5/A = 1 - 3/4$$

$$5/A = 1/4$$

$$A = 20 \text{ days}$$

Time taken by A alone to complete the work = 20 days

$$\text{Ratio of efficiency of A to B} = 6:5$$

$$\text{Total work done by A} = 5 * 6 = 30 \text{ units}$$

$$\text{Total work done by B} = (5 + 13) * 5 = 90 \text{ units}$$

$$\text{Wages obtained by B} = 3200 * 90/(30 + 90) = \text{Rs.}2400$$

16) Answer: B

$$(x + x - 60)/14 = (x + 1.5x)/20$$

$$(2x - 60)/7 = 2.5x/10$$

$$20x - 600 = 17.5x$$

$$2.5x = 600$$

$$x = 240 \text{ m}$$

Speed of the train = $(240 + 1.5 * 240)/20 = (240 + 360)/20 = 600/20 = 30 \text{ m/s} = 30 * 18/5 = 108 \text{ km/hr}$

17) Answer: A

Let the speed of the boat in still water be B km/hr.

$$x/12 = B$$

$$x = 12B$$

$$x/(B - C) - x/(B + C) = 5$$

$$12B/(B - 4) - 12B/(B + 4) = 5$$

$$(12B^2 + 48B - 12B^2 + 48B)/(B^2 - 16) = 5$$

$$96B = 5B^2 - 80$$

$$5B^2 - 96B - 80 = 0$$

$$5B^2 - 100B + 4B - 80 = 0$$

$$5B(B - 20) + 4(B - 20) = 0$$

$$B = 20, -4/5$$

Speed of the boat in still water = 20 km/hr

Downstream speed of the boat = $20 + 4 = 24 \text{ km/hr}$

18) Answer: B

Let the height of the right angled triangle be x m.

$$b^2 + h^2 = \text{hypotenuse}$$

$$9^2 + h^2 = 41^2$$

$$81 + h^2 = 1681$$

$$h^2 = 1600$$

Directions (1-5): What value should come in the place of (?) in the following questions.

1) $187 - 125 + 19 = ? * 9$

a) 5

b) 7

$$h = 40 \text{ m}$$

Area of the right angled triangle = $1/2 * 9 * 40 = 180 \text{ m}^2$

19) Answer: A

$$(60 + x/2)/x = 2/1$$

$$(120 + x)/2 = 2x$$

$$120 + x = 4x$$

$$3x = 120$$

$$x = 40 \text{ liters}$$

Initial quantity of water = 40 liters

Initial quantity of mixture = $60 + 40 = 100 \text{ liters}$

Quantity removed = $100 * 20/100 = 20 \text{ liters}$

Required ratio = $60 - 20 * 3/5 + 40 * 4/5 : 40 - 20 * 2/5 = (60 - 12 + 32) : (40 - 8) = 80:32 = 5:2$

20) Answer: C

Let the cost price of each pencil be Rs.x and the cost price of each pen be Rs.(x - 2).

$$10 * x * 73/100 + 15 * (x - 2) * 120/100 = 10x + 15 * (x - 2)$$

$$73x/10 + (180x - 360)/10 = 25x - 30$$

$$253x - 360 = 250x - 300$$

$$3x = 60$$

$$x = 20$$

Cost price of one pen = $20 - 2 = \text{Rs.}18$

Selling price of two pen = $2 * 18 * 120/100 = \text{Rs.}43.2$

Score Booster

c) 9

d) 11

e) 14

2) $(0.64)^{78} \div (0.512)^{39} = (0.8)^?$

- a) 32
b) 42
c) 39
d) 48
e) 57

3) $\sqrt{2304} \div \sqrt[3]{(1728)} + \sqrt{2(3025)} * \sqrt{16} = ?$

- a) 224
b) 228
c) 232
d) 236
e) 240

4) $\frac{?}{4}$ of $\sqrt[3]{15625} = 200/\frac{?}{4}$ of $\sqrt{4}$

- a) 26
b) 17
c) 20
d) 8
e) 23

5) $43 * 18 - 21 * 23 = ? + 191$

- a) 100
b) 120
c) 140
d) 150
e) 180

Directions (6-10): What approximate value should come in the place of (?) in the following questions.

6) $18.18 * 29.98 = ? * 8.98$

- a) 40
b) 50

- c) 60
d) 30
e) 90

7) $(15.14\% \text{ of } 8999.78 - 6.91\% \text{ of } 300.35) = ?$

- a) 1100
b) 1329
c) 1582
d) 1651
e) 1700

8) $30.012\% \text{ of } 579.94 + 21.15\% \text{ of } 199.93 = ? + \sqrt{2115}$

- a) 140
b) 150
c) 170
d) 190
e) 210

9) $11.99 * 12.99 + 55.55\% \text{ of } 719.908 + 83.33\% \text{ of } 186 = ?$

- a) 711
b) 719
c) 723
d) 727
e) None of these

10) $13.72\% \text{ of } 349.88 + 11\% \text{ of } 295 = ?\% \text{ of } 50.01$

- a) 164
b) 175
c) 150
d) 192

e) 216

Directions (11-15): What value should come in the place of (?) in the following number series?

11) 11, 17, 27, 41, 59, ?

a) 88

b) 84

c) 81

d) 92

e) 89

12) 10.5, 15.5, 5.5, ?, 0.5

a) 10

b) 30.5

c) 20

d) 20.5

e) 34.5

13) 456, 228, 342, 855, ?

a) 2552.5

b) 3688.5

c) 2442.5

d) 2992.5

e) 4274.5

14) 4, 8, 26, 74, ?, 354

a) 158

b) 169

c) 174

d) 182

e) 191

15) 24, 23, 38, 87, 284, ?

a) 1856

b) 1295

c) 1927

d) 2138

e) 2370

Directions (16-20): Find out the wrong number in the following number series.

16) 24, 36, 90, 138, 337.5, 506.25

a) 138

b) 337.5

c) 506.25

d) 90

e) 36

17) 79, 319, 439, 499, 529, 545

a) 319

b) 545

c) 499

d) 439

e) 529

18) 19, 29, 40, 44, 52, 60

a) 29

b) 40

c) 60

d) 52

e) 44

19) 31 38 47.1 58.5 72.4 87.8

a) 38

b) 72.4

c) 58.5

- d) 31
e) 87.8

20) 121, 130, 112, 139, 102, 148, 94

- a) 130
b) 148
c) 102
d) 94
e) 121

Directions (21-25): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give answer as,

21)

I) $2x^2 - 30x + 100 = 0$

II) $3y^2 - 24y + 45 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

22)

I: $x^2 + 2x - 15 = 0$

II: $y^2 + 8x + 15 = 0$

- a) $x < y$
b) $x > y$
c) $x \leq y$
d) $x \geq y$
e) Relationship between x and y cannot be determined

23)

I. $x^2 + 17x + 42 = 0$

II. $(y+3)^2 = 0$

- a) $x > y$
b) $x \leq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \geq y$

24)

I) $2x^2 + 19x + 35 = 0$,

II) $2y^2 + 39y + 187 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

25)

I) $x^2 + 10x - 96 = 0$

II) $y^2 + 23y + 112 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

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Answer Key with Explanation

1) Answer: C

$$187 - 125 + 19 = ? * 9$$

$$81 = ? * 9$$

$$? = 9$$

2) Answer: C

$$(0.64)^{78} \div (0.512)^{39} = (0.8)^?$$

$$0.8^{(78 * 2 - 39 * 3)} = (0.8)^?$$

$$? = 39$$

3) Answer: A

$$\sqrt{2304} \div \sqrt[3]{(1728)} + \sqrt[2]{(3025)} * \sqrt{16} = ?$$

$$48/12 + 55 * 4 = ?$$

$$? = 224$$

4) Answer: D

$$?^2 = (4 * 200 * \sqrt{4}) / (\sqrt[3]{15625})$$

$$= 4 * 200 * 2/25$$

$$= 64 = 8^2$$

So,

$$? = 8$$

5) Answer: A

$$43 * 18 - 21 * 23 = ? + 191$$

$$774 - 483 = ? + 191$$

$$? = 100$$

6) Answer: C

$$18.18 * 29.98 = ? * 8.98$$

$$18 * 30 = ? * 9$$

$$? = 60$$

7) Answer: B

$$(15.14\% \text{ of } 8999.78 - 6.91\% \text{ of } 300.35) = ?$$

$$\Rightarrow (15\% \text{ of } 9000) - (7\% \text{ of } 300) = ?$$

$$\Rightarrow 1350 - 21$$

$$\Rightarrow 1329$$

8) Answer: C

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$$30.012\% \text{ of } 579.94 + 21.15\% \text{ of } 199.93 = ? + \sqrt{2115}$$

$$(30/100) * 580 + (21/100) * 200 = ? + \sqrt{2116}$$

$$174 + 42 = ? + 46$$

$$? = 170$$

9) Answer: A

$$156 + 400 + 155 = ?$$

$$711 = ?$$

10) Answer: A

$$13.72\% \text{ of } 349.88 + 11\% \text{ of } 295 = x\% \text{ of } 50.01$$

$$(14 / 100) * 350 + (11 / 100) * 300 = (x / 100) *$$

$$50$$

$$49 + 33 = (x / 2)$$

$$82 * 2 = x$$

$$x = 164$$

11) Answer: C

$$11 + (2 * 3) = 17$$

$$17 + (2 * 5) = 27$$

$$27 + (2 * 7) = 41$$

$$41 + (2 * 9) = 59$$

$$59 + (2 * 11) = 81$$

12) Answer: D

$$10.5 + 5 = 15.5$$

$$15.5 - 10 = 5.5$$

$$5.5 + 15 = 20.5$$

$$20.5 - 20 = 0.5$$

13) Answer: D

$$456 * (1/2) = 228$$

$$228 * (3/2) = 342$$

$$342 * (5/2) = 855$$

$$855 * (7/2) = 2992.5$$

14) Answer: C

$$4 + (1 * 2^2) = 8$$

$$8 + (2 * 3^2) = 26$$

$$26 + (3 * 4^2) = 74$$

$$74 + (4 * 5^2) = 174$$

$$174 + (5 * 6^2) = 354$$

15) Answer: B

The pattern is,

$$24 * 1 - 1^3 = 23$$

$$23 * 2 - 2^3 = 38$$

$$38 * 3 - 3^3 = 87$$

$$87 * 4 - 4^3 = 284$$

$$284 * 5 - 5^3 = 1295$$

The answer is, 1295

16) Answer: A

$$24 * 1.5 = 36$$

$$36 * 2.5 = 90$$

$$90 * 1.5 = 135$$

$$135 * 2.5 = 337.5$$

$$337.5 * 1.5 = 506.25$$

17) Answer: B

$$79 + 240 = 319$$

$$319 + 120 = 439$$

$$439 + 60 = 499$$

$$499 + 30 = 529$$

$$529 + 15 = 544$$

18) Answer: C

$$19+(1+9)=29$$

$$29+(2+9)=40$$

$$40+(4+0)=44$$

$$44+(4+4)=52$$

$$52 + (5 + 2) = 59$$

19) Answer: E

31 38 47.1 58.5 72.4 **89**

7 9.1 11.4 13.9 16.6

2.1 2.3 2.5 2.7

Hence, the required answer = **87.8**.

20) Answer: C

Given series is

121 130 112 139 **103** 148 94

+9 -18 +27 -36 +45 -54

21) Answer: B

$$2x^2 - 30x + 100 = 0$$

$$2x^2 - 20x - 10x + 100 = 0$$

$$2x(x - 10) - 10(x - 10) = 0$$

$$(2x - 10)(x - 10) = 0$$

$$x = 5, 10$$

$$3y^2 - 24y + 45 = 0$$

$$3y^2 - 15y - 9y + 45 = 0$$

$$3y(y - 15) - 9(y - 5) = 0$$

$$(3y - 9)(y - 5) = 0$$

$$y = 3, 5$$

$$x \geq y$$

22) Answer: E

$$\text{From I } \Rightarrow x^2 + 2x - 15 = 0$$

$$\Rightarrow x(x + 5) - 3(x + 5) = 0$$

$$\Rightarrow (x - 3)(x + 5) = 0$$

$$\Rightarrow x = 3, -5$$

$$\text{From II } \Rightarrow y^2 + 8x + 15 = 0$$

$$\Rightarrow (y + 3)(y + 5) = 0$$

$$\Rightarrow y = -3, -5$$

Hence, relationship between x and y cannot be determined.

23) Answer: B

$$x^2 + 17x + 42 = 0$$

$$x^2 + 14x + 3x + 42 = 0$$

$$x(x + 14) + 3(x + 14) = 0$$

$$(x + 14)(x + 3) = 0$$

$$x = -14, -3$$

$$(y + 3)^2 = 0$$

$$y = -3, -3$$

From the values of x and y,

$$x \leq y$$

24) Answer: A

$$2x^2 + 19x + 35 = 0$$

$$2x^2 + 14x + 5x + 35 = 0$$

$$2x(x + 7) + 5(x + 7) = 0$$

$$(x + 7)(2x + 5) = 0$$

$$x = -7, -2.5$$

$$2y^2 + 39y + 187 = 0$$

$$2y^2 + 22y + 17y + 187 = 0$$

$$2y(y + 11) + 17(y + 11) = 0$$

$$(y + 11)(2y + 17) = 0$$

$$y = -11, -8.5$$

Therefore, $x > y$

25) Answer: C

$$x^2 + 10x - 96 = 0$$

$$x^2 + 16x - 6x - 96 = 0$$

$$x(x + 16) - 6(x + 16) = 0$$

$$(x - 6)(x + 16) = 0$$

$$x = 6, -16$$

$$y^2 + 23y + 112 = 0$$

$$y^2 + 16y + 7y + 112 = 0$$

$$y(y + 16) + 7(y + 16) = 0$$

$$(y + 7)(y + 16) = 0$$

$$y = -7, -16$$

Relationship between x and y cannot be established.

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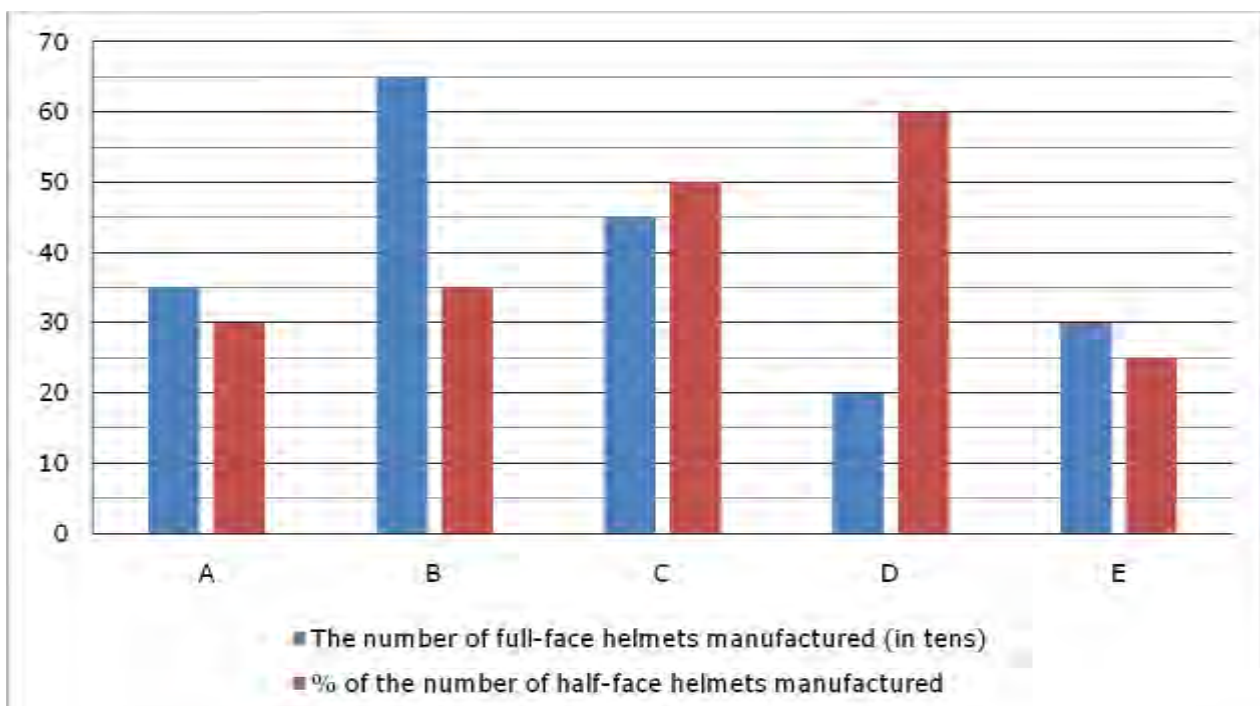
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Directions (1-5): Study the following information carefully and answer the questions.

The given bar graph shows the number of full-face helmets manufactured by five different companies i.e. A, B, C, D and E and also given the percentage of the number of half-face helmets manufactured by these five companies.

Note: Total number of helmets manufactured = Number of full-face helmets manufactured + Number of half-face helmets manufactured



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1) If the ratio of the number of half-face helmets sold to unsold by companies A and D is 2:1 and 4:1 respectively, then find the total number of half-face helmets sold by companies A and D together.

- a) 340
- b) 250
- c) 420
- d) 280
- e) 300

2) Find the difference between the total number of helmets manufactured by company C and the total number of helmets manufactured by company D.

- a) 200
- b) 350
- c) 100
- d) 400
- e) 250

3) If the number of half-face helmets manufactured by company F is double the number of half-face helmets manufactured by company E and the ratio of the number of full-face helmets manufactured by company A to F is 7:5, then find the total number of helmets (full-face+half-face) manufactured by company F.

- a) 600
- b) 450
- c) 350
- d) 500
- e) 700

4) The number of half-face helmets manufactured by company C is what percentage of the total number of helmets manufactured by company B?

- a) 70%
- b) 25%
- c) 50%
- d) 90%
- e) 45%

5) If the total number of helmets manufactured by company X is 20% more than the number of half-face helmets manufactured by company B and the total number of helmets sold by companies B and X together is 1020, then find the total number of helmets unsold by companies B and X together.

- a) 510
- b) 260
- c) 400
- d) 380
- e) 290

Directions (6-10): Study the following information carefully and answer the questions.

The given table chart shows the total population of four cities i.e. W, X, Y and Z in two different years i.e. 2010 and 2015 and also given the number of males in four different cities in 2010 and 2015.

Cities	2010		2015	
	Total population	Number of males	Total population	Number of males
W	550	310	600	320
X	900	540	740	400
Y	480	180	850	500
Z	700	450	500	290

6) In city W, if the number of males in 2020 is 25% more than that of 2015 and the ratio of the number of females in 2015 to 2020 is 4:5, then find the ratio of the total population of city W in 2010 to 2020.

- a) 9:4
- b) 11:15
- c) 7:3
- d) 8:5
- e) 10:9

7) If the ratio of the total population of city Z to A in 2010 is 5:4 and the number of females in city A in 2010 is 40% more than that of city Z, then find the total number of males in cities X and A together in 2010.

- a) 750
- b) 540
- c) 980
- d) 620
- e) 860

8) Find the ratio of the number of females in city W in 2010 to the number of females in city Z in 2015.

- a) 2:1
- b) 4:3
- c) 9:8
- d) 8:7
- e) 5:3

9) If the number of males and females in city Y in 2012 is 300 and 60 more than that of 2010 and the ratio of the total population of city Y in 2014 to 2015 is 14:17, then find the difference between the total population of city Y in 2012 and 2014.

- a) 150
- b) 200
- c) 140
- d) 190
- e) 240

10) The total number of males in cities W and Y together in 2010 is what percentage more than the number of females in city Y in 2015?

- a) 40%
- b) 15%
- c) 60%
- d) 30%

e) 25%

11) Ratio of the weight of A, B and C is 5:4:6 respectively and the weight of D is 9 kg less than the weight of A. If the difference between the weight of A and C is 15 kg, then find the ratio of the weight of B to D.

a) 9:8

b) 12:7

c) 5:9

d) 10:11

e) 6:5

12) A train crosses 60 m platform in 12 seconds and the same train crosses a car running in the same direction in 10 seconds. Find the length of the train, if the speed of the train is five times the speed of the car.

a) 180 m

b) 100 m

c) 120 m

d) 150 m

e) 160 m

13) A boat goes 90 km downstream and comes back to starting point in 8 hours and the ratio of the speed of the boat in still water to the speed of the stream is 4:1. If the speed of the stream is increased by 50%, then find the distance covered by the boat in upstream in 4 hours.

a) 80 km

b) 72 km

c) 48 km

d) 60 km

e) None of these

14) If the difference between the simple interest on a certain sum at the rate of 12% per annum for 4 years is Rs.1200 more than the simple interest on Rs.4000 at the same rate of interest for 5 years, then find the sum.

a) Rs.5000

b) Rs.8000

c) Rs.6400

d) Rs.7500

e) Rs.4000

15) The shopkeeper sold a bag for Rs.360 and he gets a profit of 20% and the ratio of the cost price of the bag to the watch is 5:8. If he sold the watch for Rs.432, then what is the profit/loss percentage of the watch?

a) 12% profit

b) 10% profit

c) 5% loss

d) 20% profit

e) 10% loss

16) A and B started a business with an investment of Rs.10500 and Rs.8000 respectively. After 8 months, B invested Rs.2000 more and A withdrew 33.33% of its initial investment. At the end of two years, the total profit of the business is Rs.9000, then find the profit share of A.

a) Rs.5600

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- b) Rs.3600
- c) Rs.4200
- d) Rs.6400
- e) None of these

17) 30 men and 16 women together can complete a work in 15 days and 20 men and 20 women together can complete the same work in 19 days. In how many days 15 men can complete half of the work?

- a) 19 days
- b) 30 days
- c) 25 days
- d) 15 days
- e) 17 days

18) The curved surface area of the cylinder is $\frac{1}{6}$ th of the total surface area of the cube and the side of the cube is 11 cm more than the height of the cylinder. Find the volume of the cylinder, if the radius of the cylinder is 7 cm.

- a) 1694 cm^3
- b) 616 cm^3
- c) 1232 cm^3
- d) 1386 cm^3
- e) 1540 cm^3

19) A vessel contains x ml mixture of milk and water is in the ratio of 7:2. If 90 ml of mixture is taken out and $(x/4)$ ml of water is added to the resultant mixture, then the quantity of milk becomes 40% more than that of water. Find the value of x .

- a) 450
- b) 270
- c) 360
- d) 720
- e) 540

20) Ratio of the age of Sophia to Luna is 6:5 and the ratio of the age of Luna to Emma is 8:y and after 5 years the age of Luna is equal to the present age of Emma. If the sum of the age of Sophia and Emma together is 8 years more than the sum of the age of Lune and Emma together, then find the value of y .

- a) 7
- b) 9
- c) 11
- d) 5
- e) 6

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Answer Key with Explanation

Directions (1-5):

Company A:

Number of half-face helmets manufactured =
 $350 * 30 / (100 - 30) = 350 * 30 / 70 = 150$

Total number of helmets manufactured = $350 + 150 = 500$

Company B:

Number of half-face helmets manufactured =
 $650 * 35 / (100 - 35) = 650 * 35 / 65 = 350$

Total number of helmets manufactured = $650 + 350 = 1000$

Company C:

Number of half-face helmets manufactured =
 $450 * 50 / (100 - 50) = 450 * 50 / 50 = 450$

Total number of helmets manufactured = $450 + 450 = 900$

Company D:

Number of half-face helmets manufactured =
 $200 * 60 / (100 - 60) = 200 * 60 / 40 = 300$

Total number of helmets manufactured = $200 + 300 = 500$

Company E:

Number of half-face helmets manufactured =
 $300 * 25 / (100 - 25) = 300 * 25 / 75 = 100$

Total number of helmets manufactured = $300 + 100 = 400$

Companies	Total number of helmets manufactured	Number of full-face helmets manufactured	Number of half-face helmets manufactured
A	500	350	150
B	1000	650	350
C	900	450	450
D	500	200	300
E	400	300	100

1) Answer: A

Number of half-face helmets sold by company A
 $= 150 * 2 / (2 + 1) = 150 * 2 / 3 = 100$

Number of half-face helmets sold by company D
 $= 300 * 4 / (4 + 1) = 300 * 4 / 5 = 240$

Required total = $100 + 240 = 340$

2) Answer: D

Required difference = $900 - 500 = 400$

3) Answer: B

Number of half-face helmets manufactured by company F = $100 * 2 = 200$

Number of full-face helmets manufactured by company F = $350 * 5 / 7 = 250$

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Required total = $200 + 250 = 450$

4) Answer: E

Required percentage = $450/1000 * 100 = 45\%$

5) Answer: C

Total number of helmets manufactured by company X = $350 * 120/100 = 420$

Total number of helmets unsold by companies B and X together = $1000 + 420 - 1020 = 400$

Directions (6-10):

2010:

Number of females in city W = $550 - 310 = 240$

Number of females in city X = $900 - 540 = 360$

Number of females in city Y = $480 - 180 = 300$

Number of females in city Z = $700 - 450 = 250$

2015:

Number of females in city W = $600 - 320 = 280$

Number of females in city X = $740 - 400 = 340$

Number of females in city Y = $850 - 500 = 350$

Number of females in city Z = $500 - 290 = 210$

Cities	2010			2015		
	Total population	Number of males	Number of females	Total population	Number of males	Number of females
W	550	310	240	600	320	280
X	900	540	360	740	400	340
Y	480	180	300	850	500	350
Z	700	450	250	500	290	210

6) Answer: B

Number of males in city W in 2020 = $320 * 125/100 = 400$

$125/100 = 400$

Number of females in city W in 2020 = $280 * 5/4 = 350$

Total population of city W in 2020 = $400 + 350 = 750$

Required ratio = $550:750 = 11:15$

7) Answer: A

Total population of city A in 2010 = $700 * 4/5 = 560$

Number of females in city A in 2010 = $250 * 140/100 = 350$

Number of males in city A in 2010 = $560 - 350 = 210$

Required sum = $540 + 210 = 750$

8) Answer: D

Required ratio = $240:210 = 8:7$

9) Answer: C

Total population of city Y in 2012 = $480 + 300 + 60 = 840$

Total population of city Y in 2014 = $850 * 14/17 = 700$

Required difference = $840 - 700 = 140$

10) Answer: A

Total number of males in cities W and Y together = $310 + 180 = 490$

Required percentage = $(490 - 350)/350 * 100 = 140/350 * 100 = 40\%$

11) Answer: D

$6x - 5x = 15$

$x = 15$

The weight of B = $4 * 15 = 60$ kg

The weight of D = $5 * 15 - 9 = 75 - 9 = 66$ kg

Required ratio = $60:66 = 10:11$

12) Answer: C

Let the length of the train = x m

And the speed of the car = a m/sec

And the speed of the train = $5a$ m/sec

$$x + 60 = 5a * 12$$

$$x = 60a - 60 \text{ ---(1)}$$

$$x = (5a - a) * 10$$

$$x = 40a \text{ ---(2)}$$

From (1) and (2),

$$60a - 60 = 40a$$

$$a = 60/20 = 3$$

The length of the train = $60 * 3 - 60 = 180 - 60 = 120$ m

13) Answer: D

Let the actual speed of the stream = a

And the speed of the boat in still water = $4a$

$$90/(4a + a) + 90/(4a - a) = 8$$

$$90/5a + 90/3a = 8$$

$$8a = 18 + 30$$

$$a = 48/8 = 6$$

The actual speed of the stream = 6 km/hr

The new speed of the stream = $6 * 150/100 = 9$ km/hr

Required distance = $(4 * 6 - 9) * 4 = 15 * 4 = 60$ km

14) Answer: D

$$a * 12 * 4/100 - (4000 * 12 * 5/100) = 1200$$

$$a * 12/25 = 1200 + 2400$$

$$a = 3600 * 25/12 = 7500$$

15) Answer: E

The cost price of the bag = $360 * 100/120 =$ Rs.300

The cost price of the watch = $300 * 8/5 =$ Rs.480

Required percentage = $(432 - 480)/480 * 100 = -48/480 * 100 = 10\%$ loss

16) Answer: C

The ratio of the profit share of A and B = $(10500 * 8 + (10500 * (100 - 33.33)/100 * 16)) : (8000 * 8 + (8000 + 2000) * 16)$

$$= (10500 * 8 + 10500 * 2/3 * 16) : (8000 * 8 + 10000 * 16)$$

$$= (105 + 70 * 2) : (80 + 100 * 2) = 7:8$$

The profit share of A = $9000 * 7/(7 + 8) = 9000 * 7/15 =$ Rs.4200

17) Answer: A

$$(30m + 16w) * 15 = (20m + 20w) * 19$$

$$450m + 240w = 380m + 380w$$

$$70m = 140w$$

$$m/w = 2/1$$

$$30m + 16w = 30m + 8m = 38 m$$

Let the time taken by 15 men can complete half of the work = x

$$38m * 15 * 1/2 = 15m * x$$

$$x = 19$$

18) Answer: A

Let the side of the cube = x

And the height of the cylinder = $x - 11$

$$6 * (x^2)/6 = 2 * 22/7 * (x - 11) * 7$$

$$x^2 = 44x - 484$$

$$x^2 - 44x + 484 = 0$$

$$x(x - 22) - 22(x - 22) = 0$$

$$x = + 22$$

$$\begin{aligned} \text{The volume of the cylinder} &= 22/7 * 7^2 * (22 - \\ 11) &= 22/7 * 7^2 * 11 = 1694 \text{ cm}^3 \end{aligned}$$

19) Answer: C

$$\begin{aligned} (x * 7/9 - 90 * 7/9)/(x * 2/9 - 90 * 2/9 + x/4) &= \\ 140/100 \end{aligned}$$

$$(7x/9 - 70)/(2x/9 - 20 + x/4) = 7/5$$

$$35x/9 - 350 = 14x/9 - 140 + 7x/4$$

$$21x/9 - 7x/4 = 210$$

$$84x - 63x = 210 * 36$$

$$x = 210 * 36/21 = 360$$

20) Answer: B

Let the present age of Lune = $5x$

And the present age of Emma = $5x + 5$

$$(6x + 5x + 5) - (5x + 5x + 5) = 8$$

$$11x - 10x = 8$$

$$x = 8$$

The present age of Emma = $5 * 8 + 5 = 40 + 5 =$

45 years

$$40/45 = 8/y$$

$$y = 9$$

Score Booster

Directions (1-5): What approximate value should come in the place of (?) in the following questions?

1) $909.05 - \sqrt{840} + ? = 29.90^2 + 170.32$

a) 160

b) 130

c) 150

d) 190

e) 110

2) $((494.74 \div 10.8) + 105.21) \div 4.85 = ?$

a) 30

b) 19

c) 26

d) 34

e) 25

3) $52\% \text{ of } 250.32 + 15.05\% \text{ of } 401 = ? + 120.82$

a) 41

b) 69

c) 37

d) 58

e) 45

4) $780 \div 25.98 + ? * \sqrt{626} = 30.10\% \text{ of } 1101$

a) 28

b) 34

c) 12

d) 44

e) 20

5) $? \div 8.94 * 270.04 - 575.94 = 39.09 * 16.2$

a) 35

b) 50

c) 75

d) 40

e) 25

Directions (6-10): What value should come in the place of (?) in the following number series?

6) 85, 90, 96, 106, 125, ?

- a) 160
- b) 134
- c) 172
- d) 148
- e) 155

7) 7200, 1800, 600, 150, ?, 12.5

- a) 100
- b) 75
- c) 150
- d) 50
- e) 90

8) 372, ?, 365, 386, 358, 393

- a) 380
- b) 375
- c) 379
- d) 365
- e) 369

9) 13, 14, 30, 93, 376, ?

- a) 754
- b) 1885
- c) 1131
- d) 1508
- e) 1045

10) ?, 1010, 1014, 1022, 1038, 1070

a) 1005

b) 1009

c) 1004

d) 1006

e) 1008

Directions (11-15): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

11)

I) $x^2 - 4x - 45 = 0$

II) $y^2 + 3y - 28 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined
- d) $x < y$
- e) $x \leq y$

12)

I) $2x^2 + 17x + 36 = 0$

II) $3y^2 + 10y + 8 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

13)

I) $x^2 - 13x + 40 = 0$

II) $y^2 + 6y - 55 = 0$

- a) $x > y$

- b) $x \geq y$
 c) $x = y$ or relationship can't be determined.
 d) $x < y$
 e) $x \leq y$

14)

I) $(x-3)^2 = 49$

II) $y^2 + 13y + 42 = 0$

- a) $x > y$
 b) $x \geq y$
 c) $x = y$ or relationship can't be determined.
 d) $x < y$
 e) $x \leq y$

15)

I) $x^2 - 19x + 78 = 0$

II) $y^2 - 29y + 208 = 0$

- a) $x > y$
 b) $x \geq y$
 c) $x = y$ or relationship can't be determined.
 d) $x < y$
 e) $x \leq y$

Directions (16-20): Find out the wrong number in the following number series.

16) 135, 252, 396, 565, 761, 986

- a) 396
 b) 986
 c) 565
 d) 135
 e) 252

17) 148, 172, 206, 235, 274, 318

- a) 206
 b) 148
 c) 235
 d) 274
 e) 318

18) 196, 100, 52, 28, 16, 9

- a) 52
 b) 9
 c) 100
 d) 196
 e) 28

19) 394, 355, 324, 295, 272, 253

- a) 324
 b) 295
 c) 394
 d) 253
 e) 272

20) 24, 12, 13, 21, 44, 112.5

- a) 112.5
 b) 44
 c) 13
 d) 12
 e) 24

Directions (21-25): What value should come in the place of (?) in the following questions?

21) $32\% \text{ of } 2000 - (\sqrt{?})\% \text{ of } 1500 = 370$

- a) 324
 b) 100
 c) 225

- d) 400
- e) 196

22) $(1420 + 780) \div ?^2 = 3300 \div \sqrt{36}$

- a) 7
- b) 5
- c) 2
- d) 8
- e) 6

23) $5/14 + 1/2 + 9/? = 5/7 - 1/7 + 13/14$

- a) 7
- b) 5
- c) 2
- d) 14

- e) 1

24) $\sqrt{(\sqrt{(141 + 7^3)} + ?) + 294} = 305$

- a) 48
- b) 99
- c) 75
- d) 56
- e) 82

25) $(-16)^2 + (196)^{1/2} + 5^? = 795 - (20)^2$

- a) 4
- b) 2
- c) 1
- d) 5
- e) 3

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Answer Key with Explanation

1) Answer: D

$$909.05 - \sqrt{840} + ? = 29.90^2 + 170.32$$

$$909 - 29 + ? = 900 + 170$$

$$? = 1070 - 880 = 190$$

2) Answer: A

$$((494.74 \div 10.8) + 105.21) \div 4.85 = ?$$

$$((495/11) + 105)/5 = ?$$

$$? = (45 + 105)/5 = 150/5$$

$$? = 30$$

3) Answer: B

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$$52\% \text{ of } 250.32 + 15.05\% \text{ of } 401 = ? + 120.82$$

$$52 * 250/100 + 15 * 400/100 = ? + 121$$

$$? = 130 + 60 - 121 = 69$$

4) Answer: C

$$780 \div 25.98 + ? * \sqrt{626} = 30.10\% \text{ of } 1101$$

$$780/26 + ? * 25 = 30 * 1100/100$$

$$? * 25 = 330 - 30$$

$$? = 300/25 = 12$$

5) Answer: D

$$? \div 8.94 * 270.04 - 575.94 = 39.09 * 16.2$$

$$?/9 * 270 = 624 + 576$$

$$? = 1200/270 * 9 = 40$$

Directions (6-10):

6) Answer: A

85	90	96	106	125	160
+5	+6	+10	+19	+35	
+1 ²	+2 ²	+3 ²	+4 ²		

7) Answer: D

$$7200 \div 4 = 1800$$

$$1800 \div 3 = 600$$

$$600 \div 4 = 150$$

$$150 \div 3 = 50$$

$$50 \div 4 = 12.5$$

8) Answer: C

$$372 + 7 = 379$$

$$379 - 14 = 365$$

$$365 + 21 = 386$$

$$386 - 28 = 358$$

$$358 + 35 = 393$$

9) Answer: B

$$13 * 1 + 1 = 14$$

$$14 * 2 + 2 = 30$$

$$30 * 3 + 3 = 93$$

$$93 * 4 + 4 = 376$$

$$376 * 5 + 5 = 1885$$

10) Answer: E

$$1008 + 2^1 = 1010$$

$$1010 + 2^2 = 1014$$

$$1014 + 2^3 = 1022$$

$$1022 + 2^4 = 1038$$

$$1038 + 2^5 = 1070$$

Directions (11-15):

11) Answer: C

$$x^2 - 4x - 45 = 0$$

$$x^2 - 9x + 5x - 45 = 0$$

$$x(x - 9) + 5(x - 9) = 0$$

$$x = +9, -5$$

$$y^2 + 3y - 28 = 0$$

$$y^2 + 7y - 4y - 28 = 0$$

$$y(y + 7) - 4(y + 7) = 0$$

$$y = -7, +4$$

The relationship between x and y can't be determined

12) Answer: D

$$2x^2 + 17x + 36 = 0$$

$$2x^2 + 8x + 9x + 36 = 0$$

$$2x(x + 4) + 9(x + 4) = 0$$

$$x = -4, -9/2$$

$$3y^2 + 10y + 8 = 0$$

$$3y^2 + 6y + 4y + 8 = 0$$

$$3y(y + 2) + 4(y + 2) = 0$$

$$y = -2, -4/3$$

Hence, $x < y$

13) Answer: B

$$x^2 - 13x + 40 = 0$$

$$x^2 - 5x - 8x + 40 = 0$$

$$x(x - 5) - 8(x - 5) = 0$$

$$x = +5, +8$$

$$y^2 + 6y - 55 = 0$$

$$y^2 - 5y + 11y - 55 = 0$$

$$y(y - 5) + 11(y - 5) = 0$$

$$y = +5, -11$$

Hence, $x \geq y$

14) Answer: A

$$(x - 3)^2 = 49$$

$$x - 3 = \sqrt{49} = \pm 7$$

$$x = (+7 + 3), (-7 + 3) = +10, -4$$

$$y^2 + 13y + 42 = 0$$

$$y^2 + 7y + 6y + 42 = 0$$

$$y(y + 7) + 6(y + 7) = 0$$

$$y = -7, -6$$

Hence, $x > y$

15) Answer: E

$$x^2 - 19x + 78 = 0$$

$$x^2 - 6x - 13x + 78 = 0$$

$$x(x - 6) - 13(x - 6) = 0$$

$$x = +6, +13$$

$$y^2 - 29y + 208 = 0$$

$$y^2 - 13y - 16y + 208 = 0$$

$$y(y - 13) - y(16 - 13) = 0$$

$$y = +13, +16$$

Hence, $x \leq y$

Directions (16-20):

16) Answer: D

$$131 + 11^2 = 252$$

$$252 + 12^2 = 396$$

$$396 + 13^2 = 565$$

$$565 + 14^2 = 761$$

$$761 + 15^2 = 986$$

17) Answer: A

148	172	201	235	274	318
	+24	+29	+34	+39	+44
	+5	+5	+5	+5	

18) Answer: B

$$196 \div 2 + 2 = 100$$

$$100 \div 2 + 2 = 52$$

$$52 \div 2 + 2 = 28$$

$$28 \div 2 + 2 = 16$$

$$16 \div 2 + 2 = 10$$

19) Answer: C

$$392 - 37 = 355$$

$$355 - 31 = 324$$

$$324 - 29 = 295$$

$$295 - 23 = 272$$

$$272 - 19 = 253$$

20) Answer: E

$$23 * 0.5 + 0.5 = 12$$

$$12 * 1 + 1 = 13$$

$$13 * 1.5 + 1.5 = 21$$

$$21 * 2 + 2 = 44$$

$$44 * 2.5 + 2.5 = 112.5$$

Directions (21-25):

21) Answer: A

$$32\% \text{ of } 2000 - \sqrt{?}\% \text{ of } 1500 = 370$$

$$32 * 2000/100 - \sqrt{?} * 1500/100 = 370$$

$$\sqrt{?} * 15 = 640 - 370$$

$$\sqrt{?} = 270/15$$

$$? = 18^2 = 324$$

22) Answer: C

$$(1420 + 780) \div ?^2 = 3300 \div \sqrt{36}$$

$$2200/?^2 = 3300/6$$

$$?^2 = 2200/550 = 4 = 2^2$$

$$? = 2$$

23) Answer: D

$$5/14 + 1/2 + 9/? = 5/7 - 1/7 + 13/14$$

$$5/14 + 7/14 + 9/? = 10/14 - 2/14 + 13/14$$

$$9/? = 21/14 - 12/14 = 9/14$$

$$? = 14$$

24) Answer: B

$$\sqrt{(\sqrt{(141 + 7^3)} + ?)} + 294 = 305$$

$$\sqrt{(\sqrt{(141 + 343)} + ?)} = 11$$

$$\sqrt{(\sqrt{484} + ?)} = 11$$

$$22 + ? = 121$$

$$? = 99$$

25) Answer: E

$$(-16)^2 + (196)^{1/2} + 5^? = 795 - (20)^2$$

$$256 + 14 + 5^? = 795 - 400$$

$$5^? = 395 - 256 - 14 = 125 = 5^3$$

$$? = 3$$

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Directions (1-5): Study the following information carefully and answer the questions.

The given table chart shows the total number of ice creams (teaberry+ strawberry) sold by five different shops i.e. A, B, C, D and E and also given the percentage of the number of teaberry ice creams sold by these five different shops.

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Shop	The total number of ice creams sold	% of the number of teaberry ice creams sold
A	400	70%
B	750	40%
C	800	55%
D	360	50%
E	540	25%

1) If the ratio of the number of teaberry ice creams sold by shop A to F is 7:5 and the number of strawberry ice creams sold by shop F is 130 less than that of shop B, then find the total number of ice creams (teaberry+strawberry) sold by shop F.

- a) 350
- b) 480
- c) 520
- d) 360
- e) None of these

2) Find the difference between the number of teaberry ice creams sold by Shop C and the number of strawberry ice creams sold by shop E.

- a) 90
- b) 50
- c) 70
- d) 35
- e) 65

3) If the number of vanilla ice creams sold by shop X is 50% of the number of strawberry ice creams sold by shop C and the ratio of the total number of ice creams sold by shop B to the

number of chocolate ice cream sold by shop X is 5:2, then find the ratio of the number of chocolate to vanilla ice creams sold by shop X.

- a) 5:3
- b) 5:4
- c) 3:2
- d) 7:5
- e) 8:11

4) Out of the total number of ice creams produced by shop D, 10% of the ice creams are unsold. If the ratio of the number of teaberry to strawberry ice creams unsold by shop D is 5:3, then find the total number of teaberry ice creams produced by shop D.

- a) 180
- b) 205
- c) 210
- d) 250
- e) 195

5) The number of teaberry ice creams sold by shop E is what percentage of the number of teaberry ice creams sold by shop B?

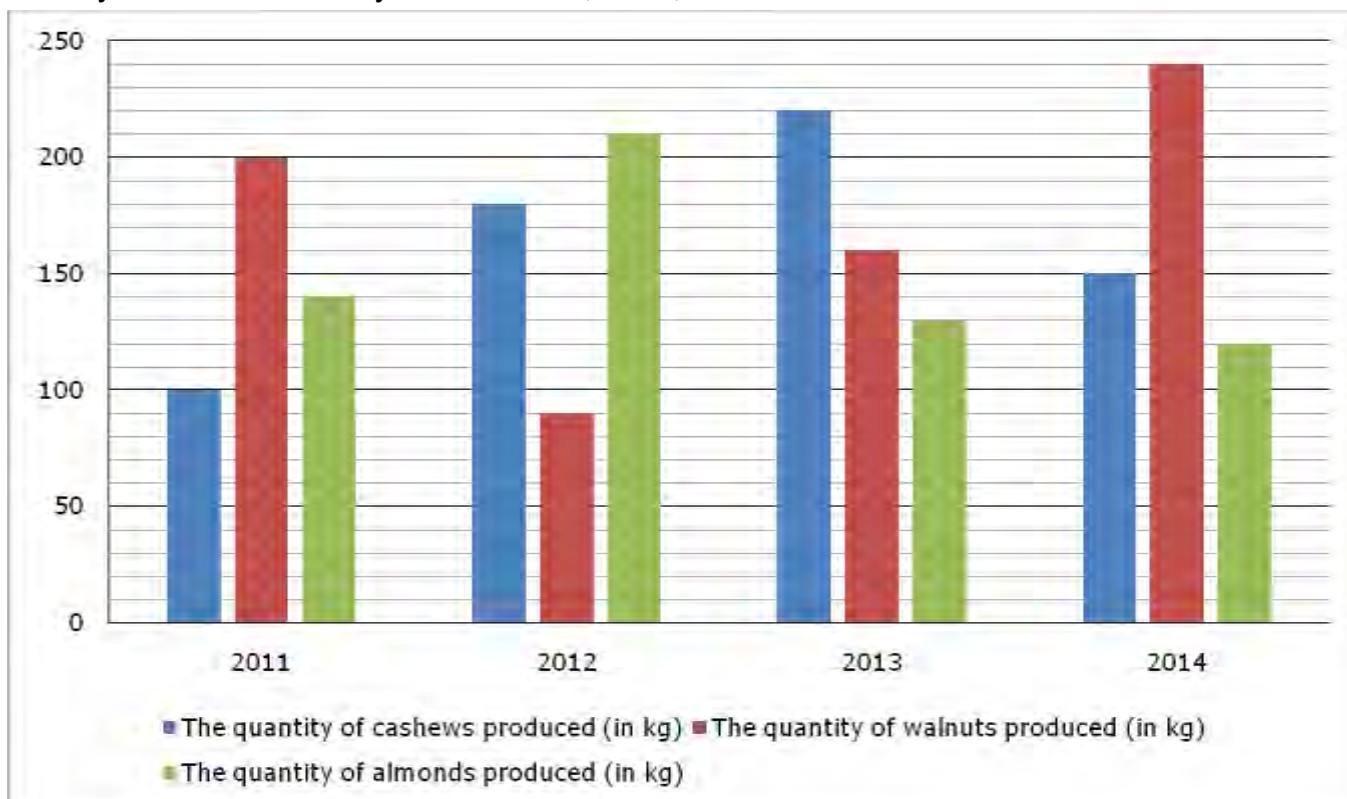
- a) 60%

- b) 25%
c) 70%

- d) 10%
e) 45%

Directions (6-10): Study the following information carefully and answer the questions.

The given bar graph shows the three types of dry fruits namely i.e. cashews, walnuts and almonds produced by A in four different years i.e. 2011, 2012, 2013 and 2014.



6) If the quantity of cashews produced in 2015 is equal to the average quantity of walnuts produced in 2013 and 2014 together, then the quantity of cashews produced in 2014 is what percentage less than the quantity of cashews produced in 2015?

- a) 40%
b) 15%
c) 30%
d) 70%
e) 25%

7) Find the ratio of the total quantity of cashews and walnuts produced together in 2011 to the quantity of almonds produced in 2012.

- a) 7:6
b) 9:8
c) 4:3
d) 10:7
e) 8:5

8) If the ratio of the quantity of cashews, walnuts and almonds sold in 2013 is 9:5:4 respectively and the quantity of almonds sold in 2013 is 30 kg

more than the quantity of almonds unsold in that year, then find the total quantity of three dry fruits unsold in 2013.

- a) 100 kg
- b) 150 kg
- c) 190 kg
- d) 140 kg
- e) 120 kg

9) The quantity of walnuts produced in 2012 is what percentage of the total quantity of cashews and almonds produced together in 2014?

- a) $33\frac{1}{3}\%$
- b) $17\frac{1}{5}\%$
- c) $37\frac{1}{5}\%$
- d) $14\frac{2}{7}\%$
- e) $66\frac{2}{3}\%$

10) If the ratio of the quantity of almonds to dates produced in 2011 is 1:2 and the quantity of dates unsold in 2011 is $\frac{1}{5}$ th of the quantity of walnuts produced in that year, then find the quantity of dates sold in 2011.

- a) 210 kg
- b) 190 kg
- c) 240 kg
- d) 180 kg
- e) 280 kg

11) Raja invested a certain amount in simple interest at the rate of 12% per annum for 4 years and obtained an interest of Rs.1440. If he invested the same amount in compound interest

compounded half yearly for one year at the rate of 20% per annum, then find the compound interest received by Raja.

- a) Rs.630
- b) Rs.840
- c) Rs.420
- d) Rs.445
- e) None of these

12) A and B started a business and the investment of A is $\frac{4}{5}$ th of the investment of B. At the end of two years, A receives 25% of the profit for managing the business and the remaining profit is shared between them based on ratio of their investment. If the profit share of A is Rs.5600, then find the total profit of the business.

- a) Rs.6600
- b) Rs.8400
- c) Rs.9600
- d) Rs.7500
- e) None of these

13) A jar contains a mixture of milk and water and the quantity of milk in the jar is 20 liters. If 10 liters of milk and 15 liters of water is added to the mixture, then the quantity of water in the resultant mixture is equal to the quantity of milk in the initial mixture. Find the initial quantity of mixture in the jar.

- a) 30 liters
- b) 45 liters
- c) 25 liters
- d) 40 liters

e) Can't be determined

14) Pavi's present age is 40% more than Saranya's present age and Archana's present age is 20% less than Saranya's present age. If the sum of the present age of Pavi, Saranya and Archana together is 80 years, then find the ratio of the age of Pavi 5 years ago to the age of Archana 4 years hence.

- a) 3:1
- b) 5:4
- c) 2:3
- d) 7:8
- e) 6:5

15) A shopkeeper sold a chair for Rs.528 and he gets a profit of 20%. If he offers a discount of 25% on its marked price, then the selling price of the chair becomes Rs.495, then find the difference between the marked price and the cost price of the chair.

- a) Rs.220
- b) Rs.500
- c) Rs.150
- d) Rs.200
- e) Rs.300

16) A boat covers a certain distance in downstream in 5 hours and the same boat covers the same distance in upstream in 9 hours. If the difference between the downstream and upstream speed of the boat is 16 km/hr, then find

the time taken by the boat to cover 112 km in still water.

- a) 7 hours
- b) 8 hours
- c) 3 hours
- d) 4 hours
- e) None of these

17) 20 men working 6 hours per day complete 25% of the work in 5 days and $(20+x)$ men working 8 hours per day complete the remaining work in $7\frac{1}{2}$ days. In how many days x men working 12 hours per day to complete the whole work?

- a) 45 days
- b) 20 days
- c) 30 days
- d) 36 days
- e) None of these

18) Ratio of the length to breadth of the rectangle is 8:5 and the side of the square is double the breadth of the rectangle. If the perimeter of the square is 28 m more than that of the rectangle, then find the area of the rectangle.

- a) 240 m²
- b) 600 m²
- c) 160 m²
- d) 340 m²
- e) 260 m²

19) A train starts from point A to B at the speed of x km/hr in 7:15 am and train B starts from

point B to A at the speed of $(x+15)$ km/hr in 8:15 am and the distance between points A to B is 570 km. If they meet at 11:15 am, then find the value of x .

- a) 75
- b) 90
- c) 60
- d) 45
- e) None of these

20) The number of girls in school A is $\frac{2}{5}$ th of the total number of students in that school. If the

total number of students in school A is increased by 25% and the number of girls in school A is also increased by 25%, then the number of boys in school A becomes 180. Find the number of boys in school A initially.

- a) 160
- b) 132
- c) 168
- d) 144
- e) 120

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Answer Key with Explanation

Directions (1-5):

Shop A:

Number of teaberry ice creams sold = $400 \times$

$$70/100 = 280$$

Number of strawberry ice creams sold = $400 -$

$$280 = 120$$

Shop B:

Number of teaberry ice creams sold = $750 \times$

$$40/100 = 300$$

Number of strawberry ice creams sold = $750 -$

$$300 = 450$$

Shop C:

Number of teaberry ice creams sold = $800 \times$

$$55/100 = 440$$

Number of strawberry ice creams sold = $800 -$

$$440 = 360$$

Shop D:

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Number of teaberry ice creams sold = $360 * 50/100 = 180$

$$50/100 = 180$$

Number of strawberry ice creams sold = $360 - 180 = 180$

$$180 = 180$$

Shop E:

Number of teaberry ice creams sold = $540 * 25/100 = 135$

$$25/100 = 135$$

Number of strawberry ice creams sold = $540 - 135 = 405$

$$135 = 405$$

Shop	Total number of ice creams sold	Number of teaberry ice creams sold	Number of strawberry ice creams sold
A	400	280	120
B	750	300	450
C	800	440	360
D	360	180	180
E	540	135	405

1) Answer: C

Number of teaberry ice creams sold by shop F = $280 * 5/7 = 200$

$$280 * 5/7 = 200$$

Number of strawberry ice creams sold by shop F = $450 - 130 = 320$

$$450 - 130 = 320$$

Required total = $200 + 320 = 520$

2) Answer: D

Required difference = $440 - 405 = 35$

3) Answer: A

Number of vanilla ice creams sold by shop X = $360 * 50/100 = 180$

$$360 * 50/100 = 180$$

Number of chocolate ice creams sold by shop X = $750 * 2/5 = 300$

$$750 * 2/5 = 300$$

Required ratio = $300:180 = 5:3$

4) Answer: B

Total number of ice creams unsold by shop D = $360 * 10/(100 - 10) = 360 * 10/90 = 40$

$$360 * 10/(100 - 10) = 360 * 10/90 = 40$$

Number of teaberry ice creams unsold by shop

$$D = 40 * 5/(5 + 3) = 40 * 5/8 = 25$$

Required total = $180 + 25 = 205$

5) Answer: E

Required percentage = $135/300 * 100 = 45\%$

6) Answer: E

The quantity of cashews produced in 2015 = $(160 + 240)/2 = 400/2 = 200$ kg

$$(160 + 240)/2 = 400/2 = 200 \text{ kg}$$

Required percentage = $(150 - 200)/200 * 100 = 50/200 * 100 = 25\%$

$$50/200 * 100 = 25\%$$

7) Answer: D

The total quantity of cashews and walnuts produced together in 2011 = $100 + 200 = 300$ kg

Required ratio = $300:210 = 10:7$

$$300:210 = 10:7$$

8) Answer: B

The quantity of almonds sold in 2013 = $(130 + 30)/2 = 160/2 = 80$ kg

$$(130 + 30)/2 = 160/2 = 80 \text{ kg}$$

The total quantity of three fruits sold in 2013 = $80 * (9 + 5 + 4)/4 = 80 * 18/4 = 360$ kg

$$80 * (9 + 5 + 4)/4 = 80 * 18/4 = 360 \text{ kg}$$

The total quantity of three fruits unsold in 2013 = $220 + 160 + 130 - 360 = 510 - 360 = 150$ kg

$$220 + 160 + 130 - 360 = 510 - 360 = 150 \text{ kg}$$

9) Answer: A

The total quantity of cashews and almonds produced together in 2014 = $150 + 120 = 270$ kg

Required percentage = $90/270 * 100 = 33(1/3)\%$

$$90/270 * 100 = 33(1/3)\%$$

10) Answer: C

The quantity of dates produced in 2011 = $140 * 2/1 = 280$ kg

$$140 * 2/1 = 280 \text{ kg}$$

The quantity of dates unsold in 2011 = $200/5 = 40$ kg

The quantity of dates sold in 2011 = $280 - 40 = 240$ kg

11) Answer: A

Let the principal of Raja = x

$$x * 12 * 4/100 = 1440$$

$$x = 3000$$

The compound interest received by Raja = 3000

$$* (1 + (20/2)/100)^2 - 3000$$

$$= 3000 * (1 + 10/100)^2 - 3000$$

$$= 3000 * 110/100 * 110/100 - 3000 = 3630 -$$

$$3000 = \text{Rs.}630$$

12) Answer: C

The ratio of the investment of A to B = $4:5$

Let the total profit of the business = $(4x + 5x) *$

$$100/75 = 9x * 4/3 = 12x$$

$$12x * 25/100 + 4x = 5600$$

$$12x * 1/4 + 4x = 5600$$

$$x = 5600/7 = 800$$

The total profit of the business = $800 * 12 =$

$$\text{Rs.}9600$$

13) Answer: C

The quantity of milk in the resultant mixture = $(20$

$$+ x + 10 + 15) - 20 = 45 + x - 20 = 25 + x$$

$$(20 + 10)/(x + 15) = (25 + x)/20$$

$$30 * 20 = (x + 15) * (25 + x)$$

$$x^2 + 40x - 600 + 375 = 0$$

$$x^2 + 40x - 225 = 0$$

$$x^2 + 45x - 5x - 225 = 0$$

$$x(x + 45) - 5(x + 45) = 0$$

$$x = + 5, - 45 = + 5$$

The initial quantity of mixture in the jar = $20 + 5 = 25$ liters

14) Answer: B

Let the age of Archana = $4a$

And the age of Saranya = $4a * 100/(100 - 20) =$

$$4a * 100/80 = 5a$$

And the age of Pavi = $5a * 140/100 = 7a$

$$4a + 5a + 7a = 80$$

$$a = 80/16 = 5$$

The age of Pavi 5 years ago = $7 * 5 - 5 = 30$ years

The age of Archana 4 years hence = $4 * 5 + 4 = 24$ years

$$\text{Required ratio} = 30:24 = 5:4$$

15) Answer: A

The cost price of the chair = $528 * 100/120 = \text{Rs.}440$

The marked price of the chair = $495 * 100/75 = \text{Rs.}660$

$$\text{Required difference} = 660 - 440 = \text{Rs.}220$$

16) Answer: D

The ratio of the downstream to upstream speed of the boat = $(d/5):(d/9) = 9:5$

$$9x - 5x = 16$$

$$x = 16/4 = 4 \text{ km/hr}$$

The speed of the boat in still water = $(9 * 4 + 5 * 4)/2 = (36 + 20)/2 = 56/2 = 28 \text{ km/hr}$

$$\text{Required time} = 112/28 = 4 \text{ hours}$$

17) Answer: B

$$20 * 6 * 5 / (25/100) = (20 + x) * 8 * 7.5 / ((100 - 25)/100)$$

$$20 * 6 * 5 * 4/1 = (20 + x) * 8 * 7.5 * 100/75$$

$$600 = 400 + 20x$$

$$x = 200/20 = 10$$

$$\text{Total work} = 20 * 6 * 5 / (25/100) = 2400$$

$$\text{Required time} = 2400 / (10 * 12) = 20 \text{ days}$$

18) Answer: C

Let the breadth of the rectangle = $5x$

And the side of the square = $5x * 2 = 10x$

And the length of the rectangle = $8x$

$$10x * 4 - 2 * (5x + 8x) = 28$$

$$40x - 26x = 28$$

$$x = 28/14 = 2$$

The area of the rectangle = $(5 * 2) * (8 * 2) = 10 * 16 = 160 \text{ m}^2$

19) Answer: A

$$(11.15 - 7.15) * x + (11.15 - 8.15) * (x + 15) = 570$$

$$4 * x + 3 * (x + 15) = 570$$

$$4x + 3x = 570 - 45$$

$$x = 525/7 = 75$$

20) Answer: D

Let the number of girls in school A initially = $2x$

And the number of boys in school A initially = $5x - 2x = 3x$

$$5x * 125/100 - 2x * 125/100 = 180$$

$$x = 180 * 4/15 = 48$$

The number of boys in school A initially = $3 * 48 = 144$

Score Booster

Directions (1-5): What approximate value should come in the place of (?) in the following questions?

1) $3640 \div 14.04 \div ? + 549.79 = 1140 \div 1.9$

a) 25

b) 10

c) 32

d) 13

e) 16

2) $((15^2 - 97.02) \div 4.2 + 108.04) = ? * 6.90$

a) 16

b) 33

c) 45

d) 18

e) 20

3) $760 \div 38.3 * 119.78 \div ? = 450.05 \div 3.12 * ?$

a) 9

b) 4

c) 13

d) 7

e) 10

4) $21.84\% \text{ of } 501 + 50.2\% \text{ of } 801 = ? * \sqrt{290}$

a) 20

b) 50

c) 30

d) 10

e) 40

5) $\sqrt[3]{27000} + \sqrt{785} - ? = \sqrt{3601} - \sqrt{255}$

- a) 12
- b) 18
- c) 15
- d) 14
- e) 10

Directions (6-10): What value should come in the place of (?) in the following number series?

6) 9, 17, 32, 61, 118, ?, 456

- a) 105
- b) 216
- c) 324
- d) 231
- e) 198

7) 1200, ?, 1213, 1238, 1287, 1408, 1577

- a) 1204
- b) 1209
- c) 1201
- d) 1205
- e) 1202

8) ?, 774, 789, 804, 819, 834, 849

- a) 757
- b) 762
- c) 759
- d) 756
- e) 760

9) 3240, 540, 108, 27, 9, ?, 4.5

- a) 5
- b) 4.5
- c) 8
- d) 7.5

e) 6

10) 100, 121, 147, 183, 234, ?

- a) 291
- b) 258
- c) 314
- d) 276
- e) 305

Directions (11-15): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

11)

I) $x^2 + 14x + 48 = 0$

II) $y^2 - 2y - 35 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

12)

I) $x^2 + x - 182 = 0$

II) $y^2 - 17y + 70 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

13)

I) $3x^2 + 13x + 12 = 0$

II) $y^2 + 9y + 20 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

14)

I) $x^2 + 15 = 8x$

II) $30/y^2 - 11/y + 1 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

15)

I) $5x^2 - 14x + 8 = 0$

II) $4y^2 + 19y + 22 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

Directions (16-20): Find out the wrong number in the following number series.

16) 20, 11, 13, 29, 120, 975, 15446

- a) 975
- b) 20
- c) 15446
- d) 120
- e) 11

17) 2, 9, 28, 65, 126, 217, 342

- a) 9
- b) 65
- c) 217
- d) 126
- e) 342

18) 48, 24, 25, 36, 72, 180, 540

- a) 48
- b) 25
- c) 36
- d) 180
- e) 540

19) 274, 287, 313, 352, 404, 465, 547

- a) 287
- b) 547
- c) 465
- d) 274
- e) 352

20) 96, 106, 120, 152, 216, 344, 600

- a) 106
- b) 120
- c) 216
- d) 600
- e) 344

Directions (21-25): What value should come in the place of (?) in the following questions?

21) $(\sqrt{144} * 15 + \sqrt[3]{512} * 25) - ? = 41 * 6$

- a) 134
- b) 120
- c) 178

d) 146

e) 155

22) $32^2 - 714 + \sqrt{441} = ? * \sqrt{3025} - 494$

a) 18

b) 26

c) 44

d) 15

e) 31

23) $(560 \div 14) * (25 \div 8) - 139 = 310 - ??$

a) 9

b) 26

c) 18

d) 11

e) 20

24) $1020 \div 17 + 30\% \text{ of } 1500 = ? + 14 * 20$

a) 230

b) 210

c) 270

d) 250

e) 290

25) $(320 - 45\% \text{ of } 600) * \sqrt{?} - 92 = 208$

a) 100

b) 49

c) 81

d) 36

e) 64

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Answer Key with Explanation

1) Answer: D

$$3640 \div 14 \div ? + 550 = 1140 \div 2$$

$$260 \div ? + 550 = 570$$

$$? = 260/20 = 13$$

2) Answer: E

$$((15^2 - 97.02) \div 4.2 + 108.04) = ? * 6.90$$

$$((225 - 97) \div 4 + 108) = ? * 7$$

$$? * 7 = (128) \div 4 + 108 = 32 + 108 = 140$$

$$? = 140/7 = 20$$

3) Answer: B

$$760 \div 38.3 * 119.78 \div ? = 450.05 \div 3.12 * ?$$

$$760/38 * 120 = 450/3 * ??$$

$$?? = 2400/150 = 16 = 4^2$$

$$? = 4$$

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4) Answer: C

$$21.84\% \text{ of } 501 + 50.2\% \text{ of } 801 = ? * \sqrt{290}$$

$$? * 17 = 22 * 500/100 + 50 * 800/100$$

$$? * 17 = 110 + 400$$

$$? = 510/17 = 30$$

5) Answer: D

$$\sqrt[3]{27000} + \sqrt{785} - ? = \sqrt{3600} - \sqrt{255}$$

$$30 + 28 - ? = 60 - 16$$

$$? = 58 - 44 = 14$$

Directions (6-10):**6) Answer: D**

$$9 * 2 - 1 = 17$$

$$17 * 2 - 2 = 32$$

$$32 * 2 - 3 = 61$$

$$61 * 2 - 4 = 118$$

$$118 * 2 - 5 = 231$$

$$231 * 2 - 6 = 456$$

7) Answer: A

$$1200 + 2^2 = 1204$$

$$1204 + 3^2 = 1213$$

$$1213 + 5^2 = 1238$$

$$1238 + 7^2 = 1287$$

$$1287 + 11^2 = 1408$$

$$1408 + 13^2 = 1577$$

8) Answer: C

$$759 + 15 = 774$$

$$774 + 15 = 789$$

$$789 + 15 = 804$$

$$804 + 15 = 819$$

$$819 + 15 = 834$$

$$834 + 15 = 849$$

9) Answer: B

$$3240 \div 6 = 540$$

$$540 \div 5 = 108$$

$$108 \div 4 = 27$$

$$27 \div 3 = 9$$

$$9 \div 2 = 4.5$$

$$4.5 \div 1 = 4.5$$

10) Answer: E

100	121	147	183	234	305
+21	+26	+36	+51	+71	
	+5	+10	+15	+20	

Directions (11-15):**11) Answer: D**

$$x^2 + 14x + 48 = 0$$

$$x^2 + 6x + 8x + 48 = 0$$

$$x(x + 6) + 8(x + 6) = 0$$

$$x = -6, -8$$

$$y^2 - 2y - 35 = 0$$

$$y^2 - 7y + 5y - 35 = 0$$

$$y(y - 7) + 5(y - 7) = 0$$

$$y = +7, -5$$

$$\text{Hence, } x < y$$

12) Answer: C

$$x^2 + x - 182 = 0$$

$$x^2 + 14x - 13x - 182 = 0$$

$$x(x + 14) - 13(x + 14) = 0$$

$$x = -14, +13$$

$$y^2 - 17y + 70 = 0$$

$$y^2 - 10y - 7y + 70 = 0$$

$$y(y - 10) - 7(y - 10) = 0$$

$$y = +10, +7$$

The relationship between x and y can't be determined

13) Answer: A

$$3x^2 + 13x + 12 = 0$$

$$3x^2 + 9x + 4x + 12 = 0$$

$$3x(x + 3) + 4(x + 3) = 0$$

$$x = -3, -4/3$$

$$y^2 + 9y + 20 = 0$$

$$y^2 + 5y + 4y + 20 = 0$$

$$y(y + 5) + 4(y + 5) = 0$$

$$y = -5, -4$$

Hence, $x > y$

14) Answer: E

$$x^2 + 15 = 8x$$

$$x^2 - 8x + 15 = 0$$

$$x^2 - 5x - 3x + 15 = 0$$

$$x(x - 5) - 3(x - 5) = 0$$

$$x = +3, +5$$

$$30/y^2 - 11/y + 1 = 0$$

$$y^2 - 11y + 30 = 0$$

$$y^2 - 6y - 5y + 30 = 0$$

$$y(y - 6) - 5(y - 6) = 0$$

$$y = +6, +5$$

Hence, $x \leq y$

15) Answer: A

$$5x^2 - 14x + 8 = 0$$

$$5x^2 - 10x - 4x + 8 = 0$$

$$5x(x - 2) - 4(x - 2) = 0$$

$$x = +2, +4/5$$

$$4y^2 + 19y + 22 = 0$$

$$4y^2 + 8y + 11y + 22 = 0$$

$$4y(y + 2) + 11(y + 2) = 0$$

$$y = -2, -11/4$$

Hence, $x > y$

Directions (16-20):

16) Answer: A

$$20 * 0.5 + 1 = 11$$

$$11 * 1 + 2 = 13$$

$$13 * 2 + 3 = 29$$

$$29 * 4 + 4 = 120$$

$$120 * 8 + 5 = 965$$

$$965 * 16 + 6 = 15446$$

17) Answer: E

$$1^3 + 1 = 2$$

$$2^3 + 1 = 9$$

$$3^3 + 1 = 28$$

$$4^3 + 1 = 65$$

$$5^3 + 1 = 126$$

$$6^3 + 1 = 217$$

$$7^3 + 1 = 344$$

18) Answer: B

$$48 * 0.5 = 24$$

$$24 * 1 = 24$$

$$24 * 1.5 = 36$$

$$36 * 2 = 72$$

$$72 * 2.5 = 180$$

$$180 * 3 = 540$$

19) Answer: C

$$274 + 13 * 1 = 287$$

$$287 + 13 * 2 = 313$$

$$313 + 13 * 3 = 352$$

$$352 + 13 * 4 = 404$$

$$404 + 13 * 5 = 469$$

$$469 + 13 * 6 = 547$$

20) Answer: A

$$96 + 8 = 104$$

$$104 + 16 = 120$$

$$120 + 32 = 152$$

$$152 + 64 = 216$$

$$216 + 128 = 344$$

$$344 + 256 = 600$$

21) Answer: A

$$(\sqrt{144} * 15 + \sqrt[3]{512} * 25) - ? = 41 * 6$$

$$(12 * 15 + 8 * 25) - ? = 246$$

$$? = (180 + 200) - 246 = 134$$

22) Answer: D

$$32^2 - 714 + \sqrt{441} = ? * \sqrt{3025} - 494$$

$$1024 - 199 = ? * 55$$

$$? = 825/55 = 15$$

23) Answer: C

$$(560 \div 14) * (25 \div 8) - 139 = 310 - ?^2$$

$$310 - ?^2 = 40 * 25/8 - 139$$

$$?^2 = 310 - 125 + 139 = 324 = 18^2$$

$$? = 18$$

24) Answer: A

$$1020 \div 17 + 30\% \text{ of } 1500 = ? + 14 * 20$$

$$60 + 30 * 1500/100 = ? + 280$$

$$? = 510 - 280 = 230$$

25) Answer: D

$$(320 - 45\% \text{ of } 600) * \sqrt{?} - 92 = 208$$

$$(320 - 45 * 600/100) * \sqrt{?} = 300$$

$$\sqrt{?} = 300/(320 - 270) = 300/50 = 6$$

$$? = 36$$

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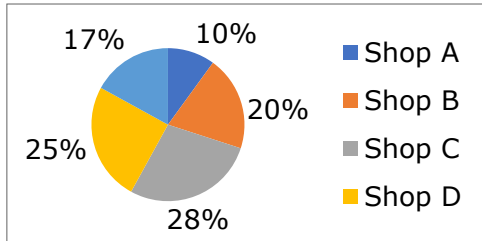
Directions (1-5): Read the following information carefully and answer the questions.

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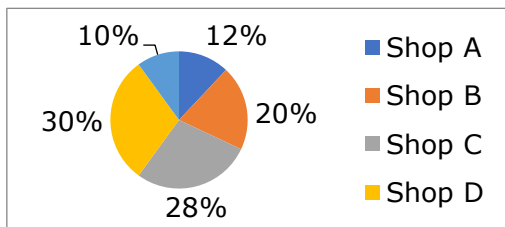
The given pie chart shows the total number of two types of pen drives (8GB + 16 GB) sold in five different shops namely A, B, C, D and E.

The total number of two types of pen drives sold in all shops together = 2000



The given pie chart shows the number of 8 GB pen drives sold in five different shops namely A, B, C, D and E.

The total number of 8GB pen drives sold in all shops together = 1200



1) Find the ratio of the number of 8 GB pen drives sold in Shop B to the number of 16 GB pen drives sold in Shop D.

- 17:11
- 19:9
- 12:7
- 11:13
- None of these

2) The number of 16 GB pen drives sold in Shop A is what percentage of the total number of pen drives sold in Shop C?

- 10%
- 12%
- 15%
- 18%
- None of these

3) Find the difference between the number of 8 GB pen drives sold in Shop D and the total number of pen drives sold in Shop B.

- 20
- 50
- 30
- 40
- None of these

4) If the total number of pen drives sold in Shop F is 25% more than that of Shop D and the number of 8GB pen drives sold in Shop F is 36 less than that of Shop C, then find the number of 16GB pen drives sold in Shop F.

- 325
- 300
- 365
- 390
- None of these

5) The ratio of the number of HP to Sandisk pen drives sold in Shop E is 9:8 and the ratio of the number of 8 GB HP to Sandisk pen drives sold

in Shop E is 3:2. Find the number of 16GB Sandisk pen drives sold in Shop E.

- a) 112
- b) 150
- c) 124
- d) 138
- e) None of these

Directions (6-10): Read the following information carefully and answer the questions.

The given table chart shows the number of neem trees planted in five different cities namely A, B, C, D, and E, and also given the number of banyan trees planted in these cities.

City	The Number of Neem trees planted	The Number of banyan trees planted
A	40x	25x
B	18x	700
C	32x	30x
D	22x + 40	19x
E	27x + 10	660

Note:-

- 1) The number of neem trees planted in City B is $\frac{9}{37}$ th of the total number of trees planted in the same city.
- 2) The number of amla trees planted in City B and City D is 420 and 250 respectively and the ratio of the number of amla trees planted in City B to City E is 7:5.
- 3) The total number of trees planted in City A and City C is 2040 and 1780 respectively.

4) The total number of trees planted = The number of neem trees + The number of banyan trees + The number of amla trees planted.

6) Find the difference between the number of amla trees planted in City E and City C.

- a) 240
- b) 180
- c) 200
- d) 260
- e) None of these

7) The number of neem trees planted in City D is what percentage of the number of Banyan trees planted in City C.

- a) 75%
- b) 85%
- c) 80%
- d) 72%
- e) None of these

8) Find the ratio of the number of Banyan trees planted in City B to the number of amla trees planted in City D.

- a) 5:14
- b) 11:9
- c) 7:3
- d) 14:5
- e) None of these

9) If the number of Apple trees planted in City A is $\frac{1}{3}$ rd of the total number of trees planted in the same city and the number of apple trees planted in City C is 20% less than the number of banyan

trees planted in City C, then find the difference between the number of apple trees planted in City A and City C.

- a) 160
- b) 200
- c) 240
- d) 180
- e) None of these

10) If the total number of trees planted in City F is 10 less than that of City E and the number of neem trees planted in City F is 545, then find the number of banyan and amla trees planted together in City F.

- a) 955
- b) 800
- c) 840
- d) 920
- e) None of these

Directions (11-15): Read the following information carefully and answer the questions.

A school has 960 students and each student likes any of these three colours namely Blue, Black, and White. The ratio of the number of students who like only blue colour to the number of students who like both black and white but not blue colour is 2:1. The number of students who like all three colours is $\frac{1}{3}$ rd of the number of students who like both blue and black but not white. The number of students who like only white colour is 140% more than the number of students who like both black and white but not

blue colour. The number of students who like only black is 60 less than the number of students who like only white. The number of students who like both blue and white is 120. The number of students who like both black and white is 140.

11) Find the number of students who do not like the white colour.

- a) 500
- b) 480
- c) 400
- d) 360
- e) None of these

12) Find the difference between the number of students who like blue colour and the number of students who like black colour.

- a) 5
- b) 2
- c) 0
- d) 10
- e) None of these

13) The number of students who like only white colour is what percentage of the number of students who all the three colours?

- a) 500%
- b) 600%
- c) 400%
- d) 280%
- e) None of these

14) Out of the total number of students who like only blue, 60% are boys. Find the average of

the number of girls who like only blue and the number of students who like all the three colours.

- a) 45
- b) 50
- c) 60
- d) 40
- e) None of these

15) If out of the total number of students who like only one colour, 55% of them also like all three colours, then find the new total number of students who like all three colours.

- a) 370
- b) 381
- c) 321
- d) 364
- e) None of these

16) The ratio of the age of A after 8 years to the age of B before 4 years is 9:4 and the ratio of the age of B after 10 years to present age of C is 5:4. The ratio of the present age of A to C is 7:6. Find the sum of the present ages of A, B and C.

- a) 90 years
- b) 72 years
- c) 80 years
- d) 64 years
- e) None of these

17) A car travels from City A to City B in 8 hours with a speed of 'a' km/hr and also travels from City B to City C in 12 hours with a speed of (a +

10) km/hr. If the average speed of the car is 46 km/hr, find the distance between City A and City B.

- a) 560 km
- b) 320 km
- c) 480 km
- d) 600 km
- e) None of these

18) The total wages offered for A and B to complete a work is Rs.1500 and the wages obtained by B is Rs.900. If the total time taken by A and B together to complete the work is 12 days, then find the time taken by A alone to complete the work.

- a) 20 days
- b) 24 days
- c) 15 days
- d) 30 days
- e) None of these

19) The time taken by the boat to cover x km in downstream is $(x/30)$ hours and the time taken by the boat to cover the same distance in upstream is $(x/18)$ hours. Find the speed of the boat in still water.

- a) 24 km/hr
- b) 20 km/hr
- c) 18 km/hr
- d) 28 km/hr
- e) None of these

20) The area of the rectangle is $x \text{ m}^2$ and the perimeter of the square is $x/4 \text{ m}$. The area of the square is 225 m^2 . If the length of the rectangle is 5 m more than the side of the square, find the breadth of the rectangle.

a) 20 m

b) 15 m

c) 10 m

d) 12 m

e) None of these

Answer Key with Explanation

Directions (1-5):

Shop A:

The total number of pen drives sold = $2000 * 10/100 = 200$

The number of 8 GB pen drives sold = $1200 * 12/100 = 144$

The number of 16 GB pen drives sold = $200 - 144 = 56$

Shop B:

The total number of pen drives sold = $2000 * 20/100 = 400$

The number of 8 GB pen drives sold = $1200 * 20/100 = 240$

The number of 16 GB pen drives sold = $400 - 240 = 160$

Shop C:

The total number of pen drives sold = $2000 * 28/100 = 560$

The number of 8 GB pen drives sold = $1200 * 28/100 = 336$

The number of 16 GB pen drives sold = $560 - 336 = 224$

Shop D:

The total number of pen drives sold = $2000 * 25/100 = 500$

The number of 8 GB pen drives sold = $1200 * 30/100 = 360$

The number of 16 GB pen drives sold = $500 - 360 = 140$

Shop E:

The total number of pen drives sold = $2000 * 17/100 = 340$

The number of 8 GB pen drives sold = $1200 * 10/100 = 120$

The number of 16 GB pen drives sold = $340 - 120 = 220$

Shop	Total number of pen drives sold	The number of 8 GB pen drives sold	The number of 16 GB pen drives sold
A	200	144	56
B	400	240	160
C	560	336	224
D	500	360	140
E	340	120	220

1) Answer: C

Required ratio = $240:140 = 12:7$

2) Answer: A

Required percentage = $56/560 * 100 = 10\%$

3) Answer: D

Required difference = $400 - 360 = 40$

4) Answer: A

The total number of pen drives sold in Shop F =

$$500 * 125/100 = 625$$

The number of 8GB pen drives sold in Shop F =

$$336 - 36 = 300$$

The number of 16GB pen drives sold in Shop F

$$= 625 - 300 = 325$$

5) Answer: A

The number of Sandisk pendrives sold in Shop E

$$= 340 * 8/17 = 160$$

The number of 8GB Sandisk pendrives sold in

$$\text{Shop E} = 120 * 2/5 = 48$$

The number of 16 GB Sandisk pendrives sold in

$$\text{Shop E} = 160 - 48 = 112$$

Directions (6-10):

The total number of trees planted in City B = $18x$

$$* 37/9 = 74x$$

City B:

$$74x - 18x - 700 = 420$$

$$56x = 1120$$

$$x = 20$$

The number of neem trees planted = $18 * 20 =$

$$360$$

The total number of trees planted = $360 * 37/9 =$

$$1480$$

City A:

The number of neem trees planted = $40 * 20 =$

$$800$$

The number of banyan trees planted = $25 * 20 =$

$$500$$

The number of amla trees planted = $2040 - 800$

$$- 500 = 740$$

City C:

The number of neem trees planted = $32 * 20 =$

$$640$$

The number of banyan trees planted = $30 * 20 =$

$$600$$

The number of amla trees planted = $1780 - 640$

$$- 600 = 540$$

City D:

The number of neem trees planted = $22 * 20 +$

$$40 = 480$$

The number of banyan trees planted = $19 * 20 =$

$$380$$

The total number of trees planted = $480 + 380 +$

$$250 = 1110$$

City E:

The number of neem trees planted = $27 * 20 +$

$$10 = 550$$

The number of amla trees planted = $420 * 5/7 =$

$$300$$

The total number of trees planted = $550 + 660 +$

$$300 = 1510$$

City	Total number of trees planted	The number of neem trees planted	The number of banyan trees planted	The number of amla trees planted
A	2040	800	500	740
B	1480	360	700	420
C	1780	640	600	540
D	1110	480	380	250
E	1510	550	660	300

6) Answer: A

Required difference = $540 - 300 = 240$

7) Answer: C

Required percentage = $480/600 * 100 = 80\%$

8) Answer: D

Required ratio = $700:250 = 14:5$

9) Answer: B

The number of apple trees planted in City A =

$2040/3 = 680$

The number of apple trees planted in City C =

$600 * 80/100 = 480$

Required difference = $680 - 480 = 200$

10) Answer: A

The total number of trees planted in City F =

$1510 - 10 = 1500$

The number of banyan and amla trees planted

together in City F = $1500 - 545 = 955$

Directions (11-15):

The number of students who like only blue

colour = $2x$

The number of students who like both black and

white but not blue colour = x

The number of students who like only white

colour = $x * 240/100 = 2.4x$

The number of students who like only black

colour = $2.4x - 60$

The number of students who all three colours =

$140 - x$

The number of students who like both blue and

black but not white = $(140 - x) * 3 = 420 - 3x$

The number of students who like both blue and

white but not black = $120 - 140 + x = x - 20$

$$2x + x + 2.4x + 2.4x - 60 + 140 - x + 420 - 3x + x - 20 = 960$$

$$4.8x = 960 - 480$$

$$4.8x = 480$$

$$x = 100$$

The number of students who like only blue

colour = $2 * 100 = 200$

The number of students who like both black and

white but not blue colour = 100

The number of students who like only white

colour = $100 * 2.4 = 240$

The number of students who like only black

colour = $240 - 60 = 180$

The number of students who all three colours =

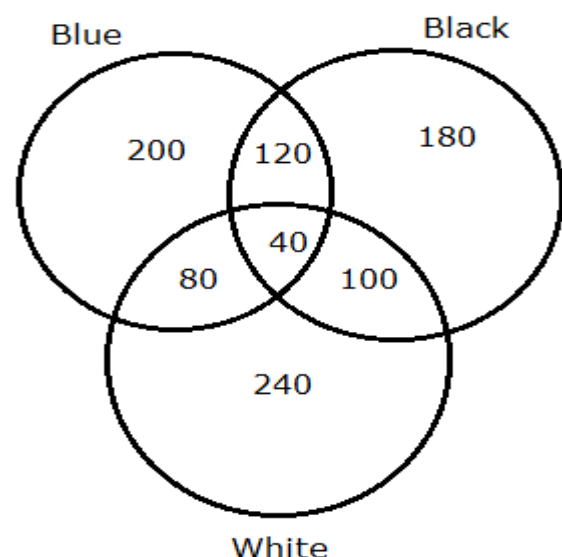
$140 - 100 = 40$

The number of students who like both blue and

black but not white = $40 * 3 = 120$

The number of students who like both blue and

white but not black = $100 - 20 = 80$



11) Answer: A

The number of students who do not like white

colour = $200 + 120 + 180 = 500$

12) Answer: C

$$\text{Required difference} = (200 + 120 + 80 + 40) - (120 + 40 + 180 + 100) = 440 - 440 = 0$$

13) Answer: B

$$\text{Required percentage} = 240/40 * 100 = 600\%$$

14) Answer: C

$$\text{The number of girls who like only blue} = 200 * 40/100 = 80$$

$$\text{Required average} = (80 + 40)/2 = 120/2 = 60$$

15) Answer: B

$$\text{The total number of students who like all three colours} = 620 * 55/100 + 40 = 341 + 40 = 381$$

16) Answer: B

$$\text{Present age of A} = 9x - 8$$

$$\text{Present age of B} = 4x + 4$$

$$\text{Present age of C} = (4x + 4 + 10) * 4/5 = (4x + 14) * 4/5$$

$$(9x - 8)/((4x + 14) * 4/5) = 7/6$$

$$(9x - 8) * 6 = (4x + 14) * 4/5 * 7$$

$$(9x - 8) * 3 = (4x + 14) * 2/5 * 7$$

$$27x - 24 = (56x + 196) * 1/5$$

$$135x - 120 = 56x + 196$$

$$79x = 316$$

$$x = 4$$

$$\text{Present age of A} = 9 * 4 - 8 = 28 \text{ years}$$

$$\text{Present age of B} = 4 * 4 + 4 = 20 \text{ years}$$

$$\text{Present age of C} = (20 + 10) * 4/5 = 24 \text{ years}$$

$$\text{Required sum} = 28 + 20 + 24 = 72 \text{ years}$$

17) Answer: B

Let the distance between City A and City B be x km and the distance between City B and City C be y km.

$$x = 8a$$

$$y = 12 * (a + 10) = 12a + 120$$

$$46 = (8a + 12a + 120)/(8 + 12)$$

$$46 * 20 = 20a + 120$$

$$920 = 20a + 120$$

$$20a = 800$$

$$a = 40 \text{ km/hr}$$

$$x = 8 * 40 = 320 \text{ km}$$

18) Answer: D

$$\text{Wages obtained by A} = 1500 - 900 = \text{Rs.}600$$

Ratio of the wages obtained by A and B is equal to the efficiency ratio of A and B.

$$\text{Efficiency ratio of A and B} = 600:900 = 2:3$$

Ratio of the time taken by A to B alone to complete the work = 3:2

$$\text{Time taken by A alone to complete the work} = 3x$$

$$\text{Time taken by B alone to complete the work} = 2x$$

$$1/3x + 1/2x = 1/12$$

$$(2 + 3)/6x = 1/12$$

$$5/x = 1/2$$

$$x = 10 \text{ days}$$

$$\text{Time taken by A alone to complete the work} = 3 * 10 = 30 \text{ days}$$

19) Answer: A

Let the speed of the boat in still water be B km/hr and the speed of the current be C km/hr.

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$$B + C = x/(x/30)$$

$$B + C = 30$$

$$B - C = x/(x/18)$$

$$B - C = 18$$

$$2B = 48$$

$$B = 24 \text{ km/hr}$$

20) Answer: D

$$a^2 = 225$$

$$a = 15 \text{ m}$$

$$\text{Perimeter of the square} = 4 * 15 = 60 \text{ m}$$

$$x/4 = 60$$

$$x = 240$$

$$\text{Area of the rectangle} = 240$$

$$\text{Length of the rectangle} = 15 + 5 = 20 \text{ m}$$

$$20 * b = 240$$

$$b = 12 \text{ m}$$

Score Booster

Directions (1-5): What value should come in the place of (?) in the following questions.

1) $(0.8)^{43} \div (0.64)^{18} * (0.512) = (0.8)^?$

- a) 8
- b) 10
- c) 12
- d) 14
- e) 17

2) $22^2 - (216)^{(1/3)} + (8000)^{(1/3)} = ?$

- a) 492
- b) 496
- c) 498
- d) 500
- e) 518

3) $26^2 - 36 = (?)^2 + 3 * \sqrt{1369}$

- a) 21
- b) 22
- c) 23
- d) 25

e) 29

4) $30 * 28 + 20 * 60 - ? = 23 * 38$

- a) 1156
- b) 1146
- c) 1166
- d) 1136
- e) 1126

5) $12.5\% \text{ of } 240 + 37.5\% \text{ of } 320 + 62.5\% \text{ of } 400 = ?$

- a) 400
- b) 300
- c) 200
- d) 480
- e) 360

Directions (6-10): What approximate value should come in the place of (?) in the following questions?

6) $5/6 \text{ of } 1445.92 * 8.905 = 240.851\% \text{ of } ?$

- a) 4500
- b) 5500
- c) 6500
- d) 4000
- e) 6000

7) $(4.24)^3 + (6.845)^2 + (9.906)^2 = ? - (4.85)^2$

- a) 256
- b) 246
- c) 238
- d) 236
- e) 240

8) $\sqrt{2025.01} * 15.112 - 26.896 - 5.998 * \sqrt{63.12} = 15 * ?$

- a) 35
- b) 20
- c) 30
- d) 40
- e) 45

9) $419.969 \div 5.869 + 568.05 \div 7.805 + \sqrt{440.80} = ?$

- a) 162
- b) 165
- c) 142
- d) 152
- e) 149

10) $124.82\% \text{ of } 75.95 + 96.256 - 18.399 * \sqrt{8.72} = ?$

- a) 125
- b) 127

- c) 135
- d) 137
- e) 158

Directions (11-15): What value should come in the place of (?) in the following number series?

11) 11, 45, 182, ?, 2928, 11717

- a) 729
- b) 731
- c) 733
- d) 745
- e) 746

12) 170, 148, 130, 116, 106, ?

- a) 78
- b) 86
- c) 98
- d) 100
- e) 102

13) 21, 101, 163, 209, 241, ?

- a) 254
- b) 261
- c) 272
- d) 278
- e) 289

14) 12, 19, 38, 75, ?, 227

- a) 120
- b) 128
- c) 132
- d) 136
- e) 142

15) 12, ?, 72, 288, 1440, 8640

- a) 18
- b) 24
- c) 30
- d) 48
- e) 60

Directions (16-20): Find out the wrong number in the following number series.

16) 13, 27, 56, 102, 167, 254

- a) 167
- b) 102
- c) 56
- d) 27
- e) 254

17) 812, 803, 667, 618, 582, 557

- a) 557
- b) 667
- c) 803
- d) 618
- e) 582

18) 24, 36, 54, 180, 540, 1890

- a) 36
- b) 180
- c) 54
- d) 540
- e) 1890

19) 1, 9, 65, 394, 1976, 7928

- a) 1976

b) 394

c) 7928

d) 65

e) 9

20) 20, 58, 120, 200, 340, 510

- a) 120
- b) 340
- c) 200
- d) 510
- e) 58

Directions (21-25): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give an answer as,

21)

I) $x^2 - 12x - 189 = 0$

II) $y^2 + 25y + 156 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

22)

I) $2x^2 - 22x + 20 = 0$

II) $y^2 - 11y + 10 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

23)

I) $x^2 + 17x + 72 = 0$

II) $(y + 2)! = 6 * y!$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

24)

I) $x^2 + 2x - 483 = 0$

II) $y^2 + y - 552 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

25)

I) $x^2 - 32x + 252 = 0$

II) $y^2 - 33y + 270 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

Answer Key with Explanation

Directions (1-5):

1) Answer: B

$$(0.8)^{43} \div (0.64)^{18} * (0.512) = (0.8)^?$$

$$(0.8)^{43} / (0.8)^{36} * (0.8)^3 = (0.8)^?$$

$$(0.8)^{43 - 36 + 3} = (0.8)^?$$

$$? = 10$$

2) Answer: C

$$22^2 - (216)^{(1/3)} + (8000)^{(1/3)} = ?$$

$$484 - 6 + 20 = ?$$

$$498 = ?$$

3) Answer: C

$$26^2 - 36 = (?)^2 + 3 * \sqrt{1369}$$

$$676 - 36 = ?^2 + 3 * 37$$

$$?^2 = 529$$

$$? = 23$$

4) Answer: C

$$30 * 28 + 20 * 60 - ? = 23 * 38$$

$$840 + 1200 - ? = 874$$

$$? = 1166$$

5) Answer: A

$$12.5\% \text{ of } 240 + 37.5\% \text{ of } 320 + 62.5\% \text{ of } 400 = ?$$

$$1/8 * 240 + 3/8 * 320 + 5/8 * 400 = ?$$

$$30 + 120 + 250 = ?$$

$$400 = ?$$

Directions (6-10):

6) Answer: A

$$5/6 \text{ of } 1445.92 * 8.905 = 240.851\% \text{ of } ?$$

$$1205 * 9 = 241/100 * ?$$

$$10845 = 241/100 * ?$$

$$? = 4500$$

7) Answer: C

$$(4.24)^3 + (6.845)^2 + (9.906)^2 = ? - (4.85)^2$$

$$64+49+100+25=?$$

$$238=?$$

8) Answer: D

$$\sqrt{2025.01} * 15.112 - 26.896 - 5.998*$$

$$\sqrt{63.12}=15*?$$

$$45*15-27-6*8=15*?$$

$$600=15*?$$

$$40=?$$

9) Answer: A

$$419.969 \div 5.869 + 568.05 \div 7.805 + \sqrt{440.80} = ?$$

$$420/6+568/8+21=?$$

$$70+71+21=?$$

$$162=?$$

10) Answer: D

$$124.82\% \text{ of } 75.95 + 96.256 - 18.399 * \sqrt{8.72} = ?$$

$$125/100*76+96-18*3=?$$

$$95+96-54=?$$

$$?=137$$

Directions (11-15):**11) Answer: B**

$$11 * 4 + 1 = 45$$

$$45 * 4 + 2 = 182$$

$$182 * 4 + 3 = 731$$

$$731 * 4 + 4 = 2928$$

$$2928 * 4 + 5 = 11717$$

12) Answer: D

$$13^2 + 1^2 = 170$$

$$12^2 + 2^2 = 148$$

$$11^2 + 3^2 = 130$$

$$10^2 + 4^2 = 116$$

$$9^2 + 5^2 = 106$$

$$8^2 + 6^2 = 100$$

13) Answer: B

$$21 + (9^2 - 1) = 101$$

$$101 + (8^2 - 2) = 163$$

$$163 + (7^2 - 3) = 209$$

$$209 + (6^2 - 4) = 241$$

$$241 + (5^2 - 5) = 261$$

14) Answer: D

$$1^3 + 11 = 12$$

$$2^3 + 11 = 19$$

$$3^3 + 11 = 38$$

$$4^3 + 11 = 75$$

$$5^3 + 11 = 136$$

$$6^3 + 11 = 227$$

15) Answer: B

$$12 * 2 = 24$$

$$24 * 3 = 72$$

$$72 * 4 = 288$$

$$288 * 5 = 1440$$

$$1440 * 6 = 8640$$

Directions (16-20):**16) Answer: E**

$$13 + 2^2 + 10 = 27$$

$$27 + 3^2 + 20 = 56$$

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$$56 + 4^2 + 30 = 102$$

$$102 + 5^2 + 40 = 167$$

$$167 + 6^2 + 50 = \mathbf{253}$$

17) Answer: C

$$812 - 9^2 = \mathbf{731}$$

$$731 - 8^2 = 667$$

$$667 - 7^2 = 618$$

$$618 - 6^2 = 582$$

$$582 - 5^2 = 557$$

18) Answer: C

$$24 * 1.5 = 36$$

$$36 * 2 = \mathbf{72}$$

$$72 * 2.5 = 180$$

$$180 * 3 = 540$$

$$540 * 3.5 = 1890$$

19) Answer: A

$$1 * 8 + 1 = 9$$

$$9 * 7 + 2 = 65$$

$$65 * 6 + 4 = 394$$

$$394 * 5 + 8 = \mathbf{1978}$$

$$1978 * 4 + 16 = 7928$$

20) Answer: C

$$3^3 - 7 = 20$$

$$4^3 - 6 = 58$$

$$5^3 - 5 = 120$$

$$6^3 - 4 = \mathbf{212}$$

$$7^3 - 3 = 340$$

$$8^3 - 2 = 510$$

Directions (21-25):

21) Answer: A

$$x^2 - 12x - 189 = 0$$

$$x^2 - 21x + 9x - 189 = 0$$

$$x(x - 21) + 9(x - 21) = 0$$

$$(x + 9)(x - 21) = 0$$

$$x = 21, -9$$

$$y^2 + 25y + 156 = 0$$

$$y^2 + 12y + 13y + 156 = 0$$

$$y(y + 12) + 13(y + 12) = 0$$

$$(y + 13)(y + 12) = 0$$

$$y = -13, -12$$

$$x > y$$

22) Answer: C

$$2x^2 - 22x + 20 = 0$$

$$2x^2 - 20x - 2x + 20 = 0$$

$$2x(x - 10) - 2(x - 10) = 0$$

$$(2x - 2)(x - 10) = 0$$

$$x = 1, 10$$

$$y^2 - 11y + 10 = 0$$

$$y^2 - 10y - y + 10 = 0$$

$$y(y - 10) - 1(y - 10) = 0$$

$$(y - 1)(y - 10) = 0$$

$$y = 1, 10$$

Relationship between x and y cannot be established.

23) Answer: D

$$x^2 + 17x + 72 = 0$$

$$x^2 + 9x + 8x + 72 = 0$$

$$x(x + 9) + 8(x + 9) = 0$$

$$(x + 8)(x + 9) = 0$$

$$x = -8, -9$$

$$(y + 2)! = 6 * y!$$

$$(y + 2)(y + 1)y! = 6 * y!$$

$$(y + 2)(y + 1) = 6$$

$$y^2 + y + 2y + 2 = 6$$

$$y^2 + 3y - 4 = 0$$

$$y^2 + 4y - y - 4 = 0$$

$$y(y + 4) - 1(y + 4) = 0$$

$$(y - 1)(y + 4) = 0$$

$$y = 1, -4$$

$$x < y$$

24) Answer: C

$$x^2 + 2x - 483 = 0$$

$$x^2 + 23x - 21x - 483 = 0$$

$$x(x + 23) - 21(x + 23) = 0$$

$$(x - 21)(x + 23) = 0$$

$$x = 21, -23$$

$$y^2 + y - 552 = 0$$

$$y^2 + 24y - 23y - 552 = 0$$

$$y(y + 24) - 23(y + 24) = 0$$

$$(y - 23)(y + 24) = 0$$

$$y = 23, -24$$

Relationship between x and y cannot be established.

25) Answer: C

$$x^2 - 32x + 252 = 0$$

$$x^2 - 18x - 14x + 252 = 0$$

$$x(x - 18) - 14(x - 18) = 0$$

$$(x - 14)(x - 18) = 0$$

$$x = 14, 18$$

$$y^2 - 33y + 270 = 0$$

$$y^2 - 18y - 15y + 270 = 0$$

$$y(y - 18) - 15(y - 18) = 0$$

$$(y - 15)(y - 18) = 0$$

$$y = 15, 18$$

Relationship between x and y cannot be established.

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Directions (1-5): Study the following information carefully and answer the given questions.

The given table chart shows the total number of students who appeared for three competitive exams (SSC, RRB and JEE) from city A in five different years i.e. 2012, 2013, 2014, 2015 and 2016 and also

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given the number of students who appeared for two different competitive exams i.e. SSC and RRB exams from city A in these five different years.

Years	The total number of students who appeared for competitive exams	The number of students who appeared for SSC exam	The number of students who appeared for RRB exam
2012	3800	1700	1200
2013	2990	1400	750
2014	4400	1100	1800
2015	2750	1050	1000
2016	3200	1440	960

1) If the number of girls who appeared for SSC and RRB exams in 2014 is 200 less and 300 more than the number of girls who appeared for JEE exam in the same year and the total number of boys who appeared for all three exams in 2014 is 2500, then find the number of boys who appeared for JEE exam in 2014.

- a) 900
- b) 550
- c) 720
- d) 800
- e) 670

2) Find the ratio of the number of students who appeared for JEE exam in 2013 to the number of students who appeared for JEE exam in 2016.

- a) 13:10
- b) 15:8
- c) 10:7
- d) 21:20
- e) 9:11

3) If the number of students who did not appear for JEE exam in 2015 is $\frac{1}{7}$ th of the number of students who appeared for SSC exam in that year and the ratio of the total number of students who applied for JEE to RRB exam in 2015 is 5:7, then find the number of students who did not appear for RRB exam in 2015.

- a) 240
- b) 190
- c) 310
- d) 270
- e) 160

4) If the ratio of the number of students who appeared for JEE exam in 2012 to 2018 is 6:5 and the number of students who appeared for SSC and RRB exams in 2018 is 25% less and 20% more than that in 2013, then find the total number of students who appeared for all the given three exams in 2018.

- a) 3500
- b) 1900
- c) 2700
- d) 3200
- e) 2500

5) The number of students who appeared for SSC exam in 2016 is what percentage more/less than the number of students who appeared for JEE exam in 2012?

- a) 35% less
- b) 60% more
- c) 20% less
- d) 45% more
- e) 10% more

Directions (6-10): Read the following information carefully and answer the given questions.

Three shops namely A, B and C sold three different colour plates i.e. white, yellow and green and the total number of plates sold by shop A is 440. Out of the total number of plates sold by shop C, 36% and 28% of the plates are white and yellow and the remaining 90 plates are green. Ratio of the total number of plates sold by shop B to C is 6:5 and the ratio of the number of green plates sold by shops A, B and C is 5:4:3 respectively. The number of yellow plates sold by shop A is equal to the number of white plates sold by shop C and the difference between the number of white plates sold by shops A and B is 100.

6) Find the ratio of the number of white plates sold by shop A to the number of green plates sold by shop B.

- a) 8:5
- b) 4:3
- c) 9:7
- d) 5:3
- e) 2:1

7) If the number of red plates sold by shop E is $\frac{6}{5}$ th of the number of green plates sold by shop A and the ratio of the number of yellow plates sold by shop C to E is 1:3, then find the total number of yellow and red plates together sold by shop E.

- a) 290
- b) 540
- c) 390
- d) 440
- e) 310

8) The number of white plates sold by shop B is what percentage of the total number of plates sold by shop C?

- a) 40%
- b) 15%
- c) 70%
- d) 30%
- e) 65%

9) If the ratio of the total number of plates sold to unsold by shop B is 5:2 and the number of yellow plates unsold by shop B is $\frac{1}{4}$ th of the number of yellow plates sold in that shop, then find the total

number of white and green plates unsold by shop B.

- a) 180
- b) 150
- c) 195
- d) 170
- e) 100

10) If the number of yellow plates sold by shop D is 70 more than the number of yellow plates sold by shop B, then find the ratio of the number of yellow plates sold by shop A to D.

- a) 9:8
- b) 3:5
- c) 6:7
- d) 4:3
- e) 7:6

11) A person invested some amount in two different schemes i.e. M and N and scheme M offers SI at 18% rate of interest per annum for 4 years and scheme N offers SI at 15% rate of interest per annum for 3 years and the interest obtained from scheme M is double the interest obtained from scheme N. Find the amount invested in scheme M, if the amount invested in scheme M is 750 more than that of scheme N.

- a) Rs.2750
- b) Rs.4500
- c) Rs.3750
- d) Rs.2250
- e) None of these

12) Suresh and Raja started a business with an investment in the ratio of 22:15. After 6 months, Murali joined them with half of the investment of Suresh. At the end of two years, the difference between the profit share of Raja and Murali is Rs.5400. Find the total profit of the business.

- a) Rs.36200
- b) Rs.25200
- c) Rs.37800
- d) Rs.30600
- e) None of these

13) A vessel contains 144 liters of a mixture of milk and water in the ratio of 3:1. If $x\%$ of the mixture is taken out and 18 liters of water is added to the mixture, then the milk becomes 180% of the water in the resultant mixture. Find the value of x .

- a) 33.33
- b) 15
- c) 25
- d) 12.5
- e) None of these

14) Ratio of the age of Ana to Priya is 5:4 and Ana is 15 years younger than Kavi. If $\frac{4}{5}$ th of the age of Ana is equal to 50% of the age of Kavi, then after how many years does the ratio of the age of Ana to Priya become 6:5?

- a) 2 years
- b) 5 years
- c) 8 years
- d) 3 years

e) 4 years

15) The marked price of atable is 60% more than its cost price. If the shopkeeperoffered two successive discounts of 10% and 20% respectively, then the shopkeepergets a profit of Rs.380. Find the cost price of the table.

- a) Rs.3200
- b) Rs.1500
- c) Rs.4000
- d) Rs.2500
- e) None of these

16) The time taken by the boat to cover $(x+40)$ km downstream is 6 hours which is 1 hour more than the time taken by the boat to cover x km in still water. If the upstream speed of the boat is three times the speed of the stream, then find the distance covered by the boat in 3 hours in still water.

- a) 72 km
- b) 48 km
- c) 60 km
- d) 96 km
- e) None of these

17) A, B and C alone can complete a work in $2x$, $3x$ and $6x$ respectively. They allstarted the work together and after 3 days, A left the work and B and C together complete the remaining work in 2 days. Find the time taken by C alone to complete the work.

- a) 30 days

- b) 12 days
- c) 24 days
- d) 18 days
- e) None of these

18) The perimeter of a circle is four times the perimeter of the equilateral triangle and the radius of the circle is 10 m more than the side of the equilateral triangle. Find the area of the circle.

- a) 616 m^2
- b) 924 m^2
- c) 880 m^2
- d) 1386 m^2
- e) None of these

19) Train A and B are running in opposite direction at the same speed and they cross each other in 7.5 seconds and train A crosses an electric pole in 10 seconds. If the length of train A is 100 more than the length of train B, then find the length of train A.

- a) 200 m
- b) 150 m
- c) 300 m
- d) 240 m
- e) None of these

20) In an exam, the ratio of the mark scored by Nithya to Jagan is 5:4 and the ratio of the mark scored by Jagan to Gokul is 8:9 and the mark scored by Gokul is 75% of the maximum mark. If the difference between the mark scored by

Nithya and Gokul is 10, then find the maximum markof the exam.

- a) 110
- b) 150

- c) 100
- d) 120
- e) None of these

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Answer Key with Explanation

Directions (1-5):

Number of students who appeared for JEE exam in 2012 = 3800 – 1700 – 1200 = 900

Number of students who appeared for JEE exam in 2013 = 2990 – 1400 – 750 = 840

Number of students who appeared for JEE exam in 2014 = 4400 – 1100 – 1800 = 1500

Number of students who appeared for JEE exam in 2015 = 2750 – 1050 – 1000 = 700

Number of students who appeared for JEE exam in 2016 = 3200 – 1440 – 960 = 800

Years	The number of students who appeared for competitive exams	The number of students who appeared for SSC exam	The number of students who appeared for RRB exam	The number of students who appeared for JEE exam
2012	3800	1700	1200	900
2013	2990	1400	750	840
2014	4400	1100	1800	1500
2015	2750	1050	1000	700
2016	3200	1440	960	800

1) Answer: A

Total number of girls who appeared for all three exams in 2014 = 4400 – 2500 = 1900

Let the number of girls who appeared for JEE exam in 2014= x

$$x + (x - 200) + (x + 300) = 1900$$

$$x = 1800/3 = 600$$

Number of boys who appeared for JEE exam in 2014 = 1500 – 600 = 900

2) Answer: D

$$\text{Required ratio} = 840:800 = 21:20$$

3) Answer: B

Number of students who did not appear for JEE exam in 2015 = 1050/7 = 150

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Total number of students who applied for RRB exam in 2015 = $(700 + 150) * 7/5 = 850 * 7/5 = 1190$

Number of students who did not appear for RRB exam in 2013 = $1190 - 1000 = 190$

4) Answer: C

Number of students who appeared for JEE exam in 2018 = $900 * 5/6 = 750$

Number of students who appeared for SSC exam in 2018 = $1400 * 75/100 = 1050$

Number of students who appeared for RRB exam in 2018 = $750 * 120/100 = 900$

Required total = $750 + 1050 + 900 = 2700$

5) Answer: B

Required percentage = $(1440 - 900)/900 * 100 = 540/900 * 100 = 60\%$ more

Directions (6-10):

Total number of plates sold by shop A = 440

Total number of plates sold by shop C = $90 * 100/(100 - 36 - 28) = 90 * 100/36 = 250$

Total number of plates sold by shop B = $250 * 6/5 = 300$

Number of white plates sold by shop C = $250 * 36/100 = 90$

Number of yellow plates sold by shop C = $250 * 28/100 = 70$

Number of green plates sold by shop B = $90 * 4/3 = 120$

Number of green plates sold by shop A = $90 * 5/3 = 150$

Number of yellow plates sold by shop A = 90

Number of white plates sold by shop A = $440 - 90 - 150 = 200$

Number of white plates sold by shop B = $200 + 100 = 300$ (not possible)

Number of white plates sold by shop B = $200 - 100 = 100$

Number of yellow plates sold by shop B = $300 - 100 - 120 = 80$

Shops	Total number of plates sold	Number of white plates sold	Number of yellow plates sold	Number of green plates sold
A	440	200	90	150
B	300	100	80	120
C	250	90	70	90

6) Answer: D

Required ratio = $200:120 = 5:3$

7) Answer: C

Number of red plates sold by shop E = $150 * 6/5 = 180$

Number of yellow plates sold by shop E = $70 * 3/1 = 210$

Required total = $180 + 210 = 390$

8) Answer: A

Required percentage = $100/250 * 100 = 40\%$

9) Answer: E

Total number of plates unsold by shop B = $300 * 2/5 = 120$

Number of yellow plates unsold by shop B = $80/4$
= 20

Total number of white and green plates unsold
by shop B = $120 - 20 = 100$

10) Answer: B

Number of yellow plates sold by shop D = $80 + 70 = 150$

Required ratio = $90:150 = 3:5$

11) Answer: C

Let the amount invested in scheme M = Rs.(x + 750)

And the amount invested in scheme N = Rs.x

$$(x + 750) * 18 * 4/100 = 2 * (x * 15 * 3/100)$$

$$8x + 6000 = 10x$$

$$x = 6000/2 = 3000$$

The amount invested in scheme M = $3000 + 750$
= Rs.3750

12) Answer: A

The ratio of the profit share of Suresh, Raja and

$$\text{Murali} = (22x * 24) : (15x * 24) : (11x * 18) =$$

$$88:60:33$$

The total profit of the business = $(88 + 60 + 33) * 5400 / (60 - 33) = 181 * 5400 / 27 = \text{Rs.}36200$

13) Answer: C

Milk in 144 liters = $144 * 3 / (3 + 1) = 144 * 3/4 = 108$ liters

Water in 144 liters = $144 - 108 = 36$ liters

$$(108 - 3a) / (36 - 1a + 18) = 180/100$$

$$(108 - 3a) * 5 = 9 * (54 - 1a)$$

$$540 - 15a = 486 - 9a$$

$$a = 54/6 = 9$$

$$4a = 4 * 9 = 36$$

$$x = 36/144 * 100 = 25$$

14) Answer: B

Let the present age of Ana = $5x$

And the present age of Kavi = $5x * 4/5 * 100/50$
= $8x$

$$8x - 5x = 15$$

$$x = 15/3 = 5$$

The present age of Ana = $5 * 5 = 25$ years

The present age of Priya = $4 * 5 = 20$ years

$$(25 + a) / (20 + a) = 6/5$$

$$125 + 5a = 120 + 6a$$

$$a = 5$$

15) Answer: D

Let the cost price of the table = a

$$a * 160/100 * (100 - 10)/100 * (100 - 20)/100 - a = 380$$

$$a * 8/5 * 90/100 * 80/100 - a = 380$$

$$144a - 125a = 380 * 125$$

$$a = 380 * 125/19 = 2500$$

16) Answer: B

Let the speed of the stream = a

And the speed of the boat in still water = $a * 3 + a = 4a$

$$(4a + a) * 6 - 4a * 5 = 40$$

$$30a - 20a = 40$$

$$a = 40/10 = 4$$

The speed of the boat in still water = $4 * 4 = 16$ km/hr

Required distance = $16 * 3 = 48$ km

17) Answer: C

$$(1/2x + 1/3x + 1/6x) * 3 + (1/3x + 1/6x) * 2 = 1$$

$$9/6x + 6/6x + 3/6x + 4/6x + 2/6x = 1$$

$$x = 24/6 = 4$$

C alone complete the work = $6 * 4 = 24$ days

18) Answer: D

Let the side of the equilateral triangle be x m

$$2 * 22/7 * (x + 10) = 4 * (3 * x)$$

$$11x + 110 = 21x$$

$$x = 110/10 = 11$$

The radius of the circle = $11 + 10 = 21$ m

The area of the circle = $22/7 * (21)^2 = 1386$ m²

19) Answer: A

Let the length of train B = x m

Directions (1-5): What approximate value should come in the place of (?) in the following questions?

1) 24.79% of 801 + 62.5% of 401 = ? * $\sqrt{82}$

a) 32

b) 12

c) 24

d) 50

e) 10

2) $(207.4 \div 9.09) * \sqrt{?} - 289.09 = 170.97$

a) 400

And the length of train A = $x + 100$ m

Let the speed of the train = y m/sec

$$x + 100 + x = (y + y) * 7.5$$

$$x + 50 = 7.5y \text{ ---(1)}$$

$$x + 100 = y * 10 \text{ ---(2)}$$

From equations (1) and (2),

$$y = 50/2.5 = 20$$

$$x = 20 * 10 - 100 = 100$$

The length of train A = $100 + 100 = 200$ m

20) Answer: D

Let the mark scored by Nithya = $5x$

And the mark scored by Jagan = $4x$

And the mark scored by Gokul = $4x * 9/8 = 9x/2$

$$5x - 9x/2 = 10$$

$$x = 20$$

The mark scored by Gokul = $9/2 * 20 = 90$

The maximum mark in the exam = $90 * 100/75 = 120$

Score Booster

b) 144

c) 225

d) 100

e) 625

3) $[230 - \{44.04 - (5^3 + 19.02)\}] \div 2.9 = ?$

a) 90

b) 110

c) 60

d) 130

e) 100

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4) 50.05% of $(220.2 + ? * 9.9) + 37.97 = 498.04$

- a) 50
- b) 40
- c) 70
- d) 30
- e) 20

5) $(\sqrt{960} + 15.2^2 - 46.04) \div 6.9 + ? = 104.94$

- a) 68
- b) 54
- c) 95
- d) 40
- e) 75

Directions (6-10): What value should come in the place of (?) in the following number series?

6) 9, 10, 21, 64, ?, 1286

- a) 195
- b) 260
- c) 310
- d) 257
- e) 361

7) 781, ?, 721, 698, 679, 662

- a) 750
- b) 769
- c) 747
- d) 755
- e) 739

8) ?, 1250, 1000, 600, 240, 48

- a) 2500
- b) 1250

c) 1000

- d) 3125
- e) 3000

9) 41, 20, 19, 27, 52, ?

- a) 156
- b) 106.5
- c) 127.5
- d) 141
- e) 132.5

10) 208, ?, 226, 240, 260, 288

- a) 210
- b) 215
- c) 218
- d) 209
- e) 216

Directions (11-15): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

11)

I) $x^2 + 3x - 108 = 0$

II) $y^2 - 19y + 90 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

12)

I) $x^2 + 27x + 182 = 0$

II) $y^2 + 23y + 132 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

13)

I) $5x^2 - 9x - 18 = 0$

II) $y^2 - 10y + 21 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

14)

I) $2x^2 - 13x + 21 = 0$

II) $4y^2 - 13y + 10 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$
- e) $x \leq y$

15)

I) $x^2 + 7x - 60 = 0$

II) $y^2 - 2y - 35 = 0$

- a) $x > y$
- b) $x \geq y$
- c) $x = y$ or relationship can't be determined.
- d) $x < y$

e) $x \leq y$

Directions (16-20): Find out the wrong number in the following number series.

16) 540, 544, 553, 578, 627, 738

- a) 540
- b) 627
- c) 553
- d) 738
- e) 578

17) 5, 40, 80, 320, 1280, 5120

- a) 5
- b) 40
- c) 80
- d) 320
- e) 5120

18) 1005, 1000, 970, 920, 850, 760

- a) 1005
- b) 1000
- c) 970
- d) 920
- e) 760

19) 74, 81, 95, 116, 142, 179

- a) 179
- b) 74
- c) 142
- d) 81
- e) 95

20) 122, 132, 148, 169, 195, 226

- a) 195
- b) 132
- c) 226
- d) 148
- e) 122

Directions (21-25): What value should come in the place of (?) in the following questions?

21) $(37.5\% \text{ of } 1600) \div 12 - ? = 390 \div 13$

- a) 20
- b) 18
- c) 32
- d) 24
- e) 10

22) $5(1/4) + 3(1/2) - 3(?/4) = 3/4 + 4(1/4)$

- a) 1
- b) 2
- c) 5
- d) 4
- e) 3

23) $(360 \div 16) * \sqrt[3]{64} + ? * 24 = 18 * 25$

- a) 18
- b) 14
- c) 15
- d) 10
- e) 16

24) $?^2 = 35\% \text{ of } 80\% \text{ of } 5000 - 775$

- a) 16
- b) 20
- c) 30
- d) 25
- e) 18

25) $? = (15 * 22 - \sqrt{4900} + 440) \div (510 - 7^3 + 33)$

- a) 14
- b) 3.5
- c) 6
- d) 16
- e) 5.2

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1) Answer: D

$$24.79\% \text{ of } 801 + 62.5\% \text{ of } 401 = ? * \sqrt{82}$$

$$25 * 800/100 + 5/8 * 400 = ? * 9$$

$$? * 9 = 200 + 250 = 450$$

$$? = 450/9 = 50$$

2) Answer: A

$$(207.4 \div 9.09) * \sqrt{?} - 289.09 = 170.97$$

$$(207/9) * \sqrt{?} - 289 = 171$$

$$23 * \sqrt{?} = 171 + 289$$

$$\sqrt{?} = 460/23 = 20$$

$$? = 400$$

3) Answer: B

$$[230 - \{44.04 - (5^3 + 19.02)\}] \div 2.9 = ?$$

$$? = [230 - \{44 - (125 + 19)\}] \div 3$$

$$? = [230 - \{44 - 144\}] \div 3 = [230 - \{-100\}] \div 3 =$$

$$[230 + 100] \div 3 = 330/3$$

$$? = 110$$

4) Answer: C

$$50.05\% \text{ of } (220.2 + ? * 9.9) + 37.97 = 498.04$$

$$50 * (220 + ? * 10)/100 + 38 = 498$$

$$(220 + ? * 10)/2 = 460$$

$$? * 10 = 460 * 2 - 220 = 920 - 220 = 700$$

$$? = 700/10 = 70$$

5) Answer: E

$$(\sqrt{960} + 15.2^2 - 46.04) \div 6.9 + ? = 104.94$$

$$(31 + 225 - 46) \div 7 + ? = 105$$

$$210 \div 7 + ? = 105$$

$$? = 105 - 30 = 75$$

6) Answer: D

$$9 * 1 + 1 = 10$$

$$10 * 2 + 1 = 21$$

$$21 * 3 + 1 = 64$$

$$64 * 4 + 1 = 257$$

$$257 * 5 + 1 = 1286$$

7) Answer: A

$$781 - 31 = 750$$

$$750 - 29 = 721$$

$$721 - 23 = 698$$

$$698 - 19 = 679$$

$$679 - 17 = 662$$

8) Answer: B

$$1250 * 5/5 = 1250$$

$$1250 * 4/5 = 1000$$

$$1000 * 3/5 = 600$$

$$600 * 2/5 = 240$$

$$240 * 1/5 = 48$$

9) Answer: C

$$41 * 0.5 - 0.5 = 20$$

$$20 * 1 - 1 = 19$$

$$19 * 1.5 - 1.5 = 27$$

$$27 * 2 - 2 = 52$$

$$52 * 2.5 - 2.5 = 127.5$$

10) Answer: E

208	216	226	240	260	288
	+8	+10	+14	+20	+28
	+2	+4	+6	+8	

11) Answer: E

$$x^2 + 3x - 108 = 0$$

$$x^2 + 12x - 9x - 108 = 0$$

$$x(x + 12) - 9(x + 12) = 0$$

$$x = -12, +9$$

$$y^2 - 19y + 90 = 0$$

$$y^2 - 10y - 9y + 90 = 0$$

$$y(y - 10) - 9(y - 10) = 0$$

$$y = +10, +9$$

Hence, $x \leq y$ **12) Answer: D**

$$x^2 + 27x + 182 = 0$$

$$x^2 + 13x + 14x + 182 = 0$$

$$x(x + 13) + 14(x + 13) = 0$$

$$x = -13, -14$$

$$y^2 + 23y + 132 = 0$$

$$y^2 + 12y + 11y + 132 = 0$$

$$y(y + 12) + 11(y + 12) = 0$$

$$y = -12, -11$$

Hence, $x < y$ **13) Answer: E**

$$5x^2 - 9x - 18 = 0$$

$$5x^2 - 15x + 6x - 18 = 0$$

$$5x(x - 3) + 6(x - 3) = 0$$

$$x = +3, -6/5$$

$$y^2 - 10y + 21 = 0$$

$$y^2 - 7y - 3y + 21 = 0$$

$$y(y - 7) - 3(y - 7) = 0$$

$$y = +7, +3$$

Hence, $x \leq y$ **14) Answer: A**

$$2x^2 - 13x + 21 = 0$$

$$2x^2 - 6x - 7x + 21 = 0$$

$$2x(x - 3) - 7(x - 3) = 0$$

$$x = +3, +7/2$$

$$4y^2 - 13y + 10 = 0$$

$$4y^2 - 8y - 5y + 10 = 0$$

$$4y(y - 2) - 5(y - 2) = 0$$

$$y = +2, +5/4$$

Hence, $x > y$ **15) Answer: C**

$$x^2 + 7x - 60 = 0$$

$$x^2 + 12x - 5x - 60 = 0$$

$$x(x + 12) - 5(x + 12) = 0$$

$$x = -12, +5$$

$$y^2 - 2y - 35 = 0$$

$$y^2 - 7y + 5y - 35 = 0$$

$$y(y - 7) + 5(y - 7) = 0$$

$$y = +7, -5$$

The relationship between x and y can't be determined

16) Answer: D

$$540 + 2^2 = 544$$

$$544 + 3^2 = 553$$

$$553 + 5^2 = 578$$

$$578 + 7^2 = 627$$

$$627 + 11^2 = 748$$

17) Answer: B

$$5 * 4 = 20$$

$$20 * 4 = 80$$

$$80 * 4 = 320$$

$$320 * 4 = 1280$$

$$1280 * 4 = 5120$$

18) Answer: A

$$1010 - 10 * 1 = 1000$$

$$1000 - 10 * 3 = 970$$

$$970 - 10 * 5 = 920$$

$$920 - 10 * 7 = 850$$

$$850 - 10 * 9 = 760$$

19) Answer: C

74	81	95	116	144	179
+7	+14	+21	+28	+35	

20) Answer: E

121	132	148	169	195	226
+11	+16	+21	+26	+31	
	+5	+5	+5	+5	

21) Answer: A

$$(37.5\% \text{ of } 1600) \div 12 - ? = 390 \div 13$$

$$(3/8 * 1600)/12 - ? = 30$$

$$? = 600/12 - 30 = 50 - 30 = 20$$

22) Answer: E

$$5(1/4) + 3(1/2) - 3(?/4) = 3/4 + 4(1/4)$$

$$21/4 + 14/4 - 3(?/4) = 3/4 + 17/4$$

$$3(?/4) = 35/4 - 20/4 = 15/4 = 3(3/4)$$

$$?/4 = 3/4$$

$$? = 3$$

23) Answer: C

$$(360 \div 16) * \sqrt[3]{64} + ? * 24 = 18 * 25$$

$$(90/4) * 4 + ? * 24 = 450$$

$$? * 24 = 450 - 90 = 360$$

$$? = 360/24 = 15$$

24) Answer: D

$$?^2 = 35\% \text{ of } 80\% \text{ of } 5000 - 775$$

$$?^2 = 35/100 * 80/100 * 5000 - 775 = 7/20 * 4/5 * 5000 - 775$$

$$5000 - 775 = 1400 - 775$$

$$?^2 = 625 = 25^2$$

$$? = 25$$

25) Answer: B

$$? = (15 * 22 - \sqrt{4900} + 440) \div (510 - 7^3 + 33)$$

$$? = (330 - 70 + 440) \div (510 - 343 + 33)$$

$$? = 700/200 = 3.5$$

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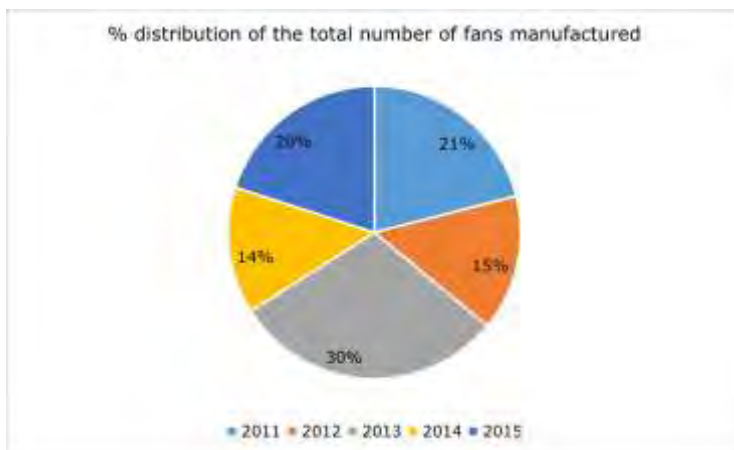
Sample Questions For Memory Based Bundle

Memory Based Bundle Pdf course - IBPS RRB PO Prelims Held on 20th August 2022) Shift -4

Directions (01-05): Study the following information carefully and answer the given questions.

The given below pie chart shows the percentage distribution of the total number of fans (tower and window) manufactured in five different years i.e. 2011, 2012, 2013, 2014 and 2015.

The total number of fans manufactured in 2015 = 1200



1) The total number of fans manufactured in 2011 is what percentage of the total number of fans manufactured in 2013 and 2015 together?

- a) 42%
- b) 25%
- c) 36%
- d) 51%
- e) None of these

2) If the number of tower fans manufactured in 2014 is 180 more than that of window fans and the ratio of the number of tower fans sold to unsold in 2014 is 12:5, then find the number of tower fans sold in 2014.

- a) 190
- b) 400
- c) 360
- d) 250
- e) None of these

3) Find the difference between the total number of fans manufactured in 2012 and 2014 together and the total number of fans manufactured in 2015?

- a) 660

- b) 800
c) 720
d) 540
e) None of these

4) If the total number of fans manufactured in 2016 is $\frac{6}{7}$ th of the total number of fans manufactured in 2011 and the number of tower fans manufactured in 2016 is 25% more than that of window fans, then find the number of tower fans manufactured in 2016.

- a) 520
b) 600
c) 740
d) 450
e) None of these

5) If the average number of tower fans manufactured in 2013 and 2015 is 790 and the ratio of the number of tower fans to window fans manufactured in 2015 is 11:9, then find the number of window fans manufactured in 2013.

- a) 690
b) 900
c) 880
d) 750
e) None of these

Table Chart with statements based

Directions (06-10): Study the following information carefully and answer the given questions.

The given below table chart shows the number of males who like dance in four different towns i.e. L, M, N and O and also given the number of males who like music in these four different towns and the total number of females who like dance and music together in these four different towns.

Towns	The number of males who like dance	The number of males who like music	The total number of females who like dance and music together
L	150	240	Two times of the number of males who like dance
M	400	180	300% of the number of males who like music
N	210	300	50% more than the number of males who like music
O	120	280	$\frac{4}{5}$ th of the total number of males who like dance and music together

Note: The total number of persons = Number of (males + females) who like dance + number of (males + females) who like music

6) If the ratio of the number of males to females who like dance in town N is 7:8 and then find the ratio of the number of males to females who like music in town N.

- a) 5:9
- b) 7:3
- c) 8:5
- d) 10:7
- e) None of these

7) The total number of females who like dance and music together in town M is how much percentage more than the total number of males who like dance and music together in town O?

- a) 65%
- b) 10%
- c) 35%
- d) 20%
- e) None of these

8) If the ratio of the number of females who like dance to music in town L is 3:2 and then find the average number of males and females who like music in town L?

- a) 110
- b) 180
- c) 150
- d) 120
- e) None of these

9) Out of the total number of persons in town P, 75% of the persons are males. If the total number of persons in town P is 120 more than that in town N and then find the number of females in town P.

- a) 270
- b) 360
- c) 240
- d) 400
- e) None of these

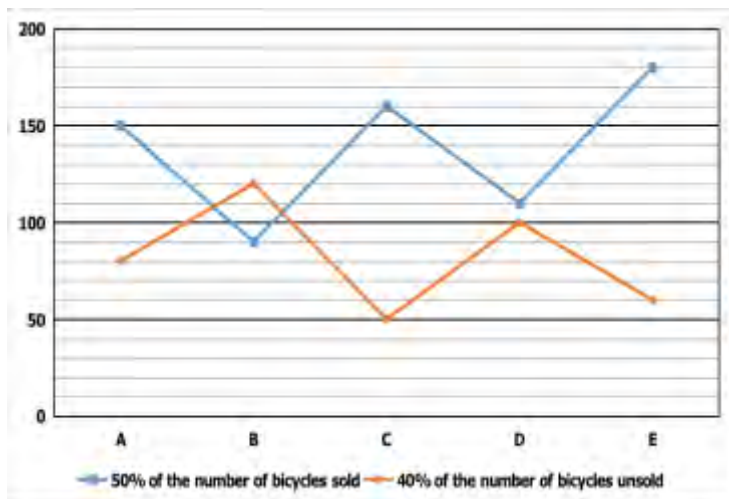
10) Find the ratio of the total number of females who like dance and music together in town L to the number of males who like dance in town O.

- a) 3:1
- b) 9:4
- c) 7:8
- d) 5:2
- e) None of these

Directions (11-15): Study the following information carefully and answer the given questions.

The given below line graph shows 50% of the number of bicycles sold in five different stores i.e. A, B, C, D and E and also 40% of the number of bicycles unsold in these five different stores.

Note: The total number of bicycles manufactured = Number of bicycles sold + number of bicycles unsold



11) If the number of bicycles sold and unsold in store F is 10% more and 20% less than that of store A, then find the total number of bicycles manufactured in store F.

- a) 350
- b) 490
- c) 720
- d) 600
- e) None of these

12) The total number of bicycles sold in store E is what percentage of the total number of bicycles manufactured in store B?

- a) 75%
- b) 30%
- c) 50%
- d) 45%
- e) None of these

13) Find the difference between the number of bicycles sold in store D and the number of bicycles unsold in store C.

- a) 75

- b) 105
- c) 175
- d) 95
- e) None of these

14) Find the average of the maximum number of bicycles unsold in the given stores and the minimum number of bicycles sold in the given stores.

- a) 310
- b) 170
- c) 240
- d) 140
- e) None of these

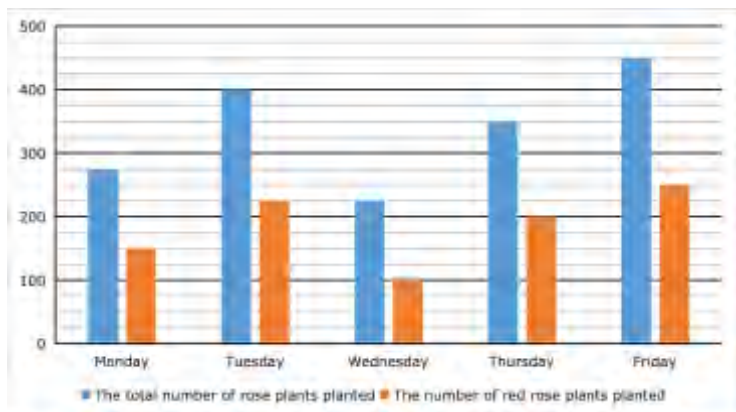
15) Out of the total number of bicycles manufactured in store A, 52% of the bicycles are red colour and the remaining bicycles are blue colour. If the number of blue colour bicycles sold in store A is 150, then find the number of blue bicycles unsold in store A.

- a) 110
- b) 90
- c) 170
- d) 200
- e) None of these

Directions (16-20): Study the following information carefully and answer the given questions.

The given below bar graph shows the total number of rose plants (red, yellow and orange)

planted on five different days i.e. Monday, Tuesday, Wednesday, Thursday and Friday and also given the number of red rose plants planted on these five different days



16) If the ratio of the number of yellow to orange rose plants planted on Thursday and Friday is 2:1 and 3:2 respectively, then find the total number of yellow rose plants planted on Thursday and Friday together?

- a) 220
- b) 400
- c) 350
- d) 270
- e) None of these

17) The total number of yellow and orange rose plants planted on Tuesday is how much more/less than the number of red rose plants planted on Wednesday?

- a) 125 less
- b) 50 more
- c) 110 less
- d) 75 more
- e) None of these

18) If the ratio of the number of red, yellow and orange rose plants planted on Saturday is 5:3:2 and the total number of yellow and orange rose plants planted on Saturday is 125 more than that on Monday, then find the number of red rose plants planted on Saturday?

- a) 400
- b) 250
- c) 300
- d) 150
- e) None of these

19) If the number of yellow rose plants planted on Thursday is equal to 60% of the number of red rose plants planted on Monday and then find the sum of the total number of red and orange rose plants planted on Thursday?

- a) 290
- b) 240
- c) 260
- d) 210
- e) None of these

20) The total number of red rose plants planted on Tuesday is what percentage of the total number of rose plants planted on Friday?

- a) 50%
- b) 30%
- c) 70%
- d) 40%
- e) None of these

21) The ratio of the perimeter of the circle to the square is 11:8 and the area of the circle is 38.5 cm^2 . Find the area of the square?

- a) 16 cm^2
- b) 64 cm^2
- c) 25 cm^2
- d) 36 cm^2
- e) None of these

22) Anu invested Rs.5400 in simple interest at the rate of 10% per annum for n years. If investment time period is increased by 2 years, then the interest becomes Rs.2700. Find the interest received by Anu when investing for n years?

- a) Rs.2150
- b) Rs.1620
- c) Rs.2080
- d) Rs.1440
- e) None of these

23) The ratio of the marked price to the cost price of the shirt is 8:5 and the shopkeeper offers a discount of 25%. If the discount amount offered by the shopkeeper is Rs.240 more than that of the profit earned, then find the cost price of the shirt?

- a) Rs.1500
- b) Rs.840
- c) Rs.1200
- d) Rs.900
- e) None of these

24) A container contains a mixture of milk and water in the ratio of 5:2. If 35 liters of mixture is taken out and 10 liters of milk is added to the mixture, then the quantity of milk becomes 25 liters more than that of water. Find the initial quantity of water in the container.

- a) 30 liters
- b) 40 liters
- c) 60 liters
- d) 20 liters
- e) None of these

25) Banu and Janu started a business with an investment in the ratio of 7:4 and they invested their amount for x months and $(x+5)$ months respectively. If the total profit of the business is Rs.4200 and the profit share of Banu is Rs.2400, then find the value of x .

- a) 16 months
- b) 30 months
- c) 15 months
- d) 24 months
- e) None of these

26) The ratio of the age of Rohan 3 years hence to the age of Mohan 6 years ago is 3:2 and the present age of Sohan is half of the present age of Mohan. Find the present age of Mohan, if Rohan is 24 years elder than Sohan?

- a) 54 years
- b) 24 years
- c) 48 years
- d) 36 years

e) None of these

27) Train A crosses train B running in opposite direction in 15 seconds and the speed of train A is 10 m/sec more than that of train B and the length of train A is double the length of train B. If train A crosses a pole in 15 seconds, then find the speed of train A?

- a) 30 m/sec
- b) 75 m/sec
- c) 20 m/sec
- d) 45 m/sec
- e) None of these

28) If a certain number of balls are distributed among Mandy, Randy and Sandy in the ratio of 7:3:11 respectively and the total number of balls received by Randy and Sandy together is 105 more than that of Mandy, then find the total number of balls distributed.

- a) 315
- b) 441
- c) 525
- d) 210
- e) None of these

29) The efficiency of Q is four times the efficiency of P. Q can complete the work in 15 days. If P, Q and R together complete the work in 6 days, then they will get the total wages of Rs.7500. Find the wages of R.

- a) Rs.2500
- b) Rs.3750

c) Rs.4000

d) Rs.1800

e) None of these

30) A boat covers 240 km downstream in 8 hours and the boat covers d km in still water in 5 hours. If the ratio of the speed of the boat to the speed of the stream is 11:4, then find the value of d.

- a) 110 km
- b) 200 km
- c) 150 km
- d) 125 km
- e) None of these

Directions (31-35): Find out the wrong number in the following number series.

31) 3, 9, 17, 33, 65, 129

- a) 3
- b) 9
- c) 17
- d) 65
- e) 129

32) 66, 71, 81, 101, 141, 201

- a) 66
- b) 81
- c) 101
- d) 141
- e) 201

33) 45, 47, 44, 49, 42, 51

- a) 49
- b) 51

- c) 45
d) 47
e) 44

34) 120, 40, 180, 90, 270, 135

- a) 90
b) 270
c) 40
d) 180
e) 135

35) 51, 52, 61, 86, 122, 216

- a) 51
b) 61
c) 86
d) 122
e) 216

Directions (36-40): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

36)

I) $x^2 + 8x - 65 = 0$

II) $y^2 - 18y + 80 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

37)

I) $x^2 - 2x - 63 = 0$

II) $y^2 + 19y + 84 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

38)

I) $2x^2 - 11x + 12 = 0$

II) $y^2 + 13y + 42 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

39)

I) $x^2 + 4x - 165 = 0$

II) $y^2 + y - 72 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

40)

I) $5x^2 + x - 22 = 0$

II) $y^2 - 9y + 14 = 0$

- a) $x > y$
b) $x \geq y$
c) $x = y$ or relationship can't be determined.
d) $x < y$
e) $x \leq y$

Answer Key with Explanation

Directions (01-05):

The total number of fans manufactured in 2015 = 1200

The total number of fans manufactured in all five years together = $1200 * 100/20 = 6000$

The total number of fans manufactured in 2011 = $6000 * 21/100 = 1260$

The total number of fans manufactured in 2012 = $6000 * 15/100 = 900$

The total number of fans manufactured in 2013 = $6000 * 30/100 = 1800$

The total number of fans manufactured in 2014 = $6000 * 14/100 = 840$

Years	The total number of fans manufactured
2011	1260
2012	900
2013	1800
2014	840
2015	1200

1. Answer: A

Required percentage = $21/(20+30) * 100 = 2100/50 = 42\%$

2. Answer: C

The number of tower fans manufactured in 2014 = $(840 + 180)/2 = 510$

The number of tower fans sold in 2014 = $510 * 12/(12 + 5) = 510 * 12/17 = 360$

3. Answer: D

The total number of fans manufactured in 2012 and 2014 together = $900 + 840 = 1740$

Total number of fans manufactured in 2015 = 1200

Required difference = $1740 - 1200 = 540$

4. Answer: B

The total number of fans manufactured in 2016 = $1260 * 6/7 = 1080$

The ratio of the number of tower fans to window fans manufactured in 2016 = $125:100 = 5:4$

The number of tower fans manufactured in 2016 = $1080 * 5/(5 + 4) = 1080 * 5/9 = 600$

5. Answer: C

The total number of tower fans manufactured in 2013 and 2015 together = $790 * 2 = 1580$

The number of tower fans manufactured in 2015 = $1200 * 11/(11 + 9) = 1200 * 11/20 = 660$

The number of tower fans manufactured in 2013 = $1580 - 660 = 920$

The number of window fans manufactured in 2013 = $1800 - 920 = 880$

Directions (06-10):

Town L:

The total number of females who like dance and music together = $150 * 2 = 300$

Town M:

The total number of females who like dance and music together = $180 * 300/100 = 540$

Town N:

The total number of females who like dance and music together = $300 * 150/100 = 450$

Town O:

The total number of males who like dance and music together = $120 + 280 = 400$

The total number of females who like dance and music together = $400 * 4/5 = 320$

Towns	The number of males who like dance	The number of males who like music	The total number of females who like dance and music together
L	150	240	300
M	400	180	540
N	210	300	450
O	120	280	320

6. Answer: D

The number of females who like dance in town N = $210 * 8/7 = 240$

The number of females who like music in town N = $450 - 240 = 210$

Required ratio = $300:210 = 10:7$

7. Answer: C

The total number of females who like dance and music together in town M = 540

The total number of males who like dance and music together in town O = $120 + 280 = 400$

Required percentage = $(540 - 400)/400 * 100 = 140/4 = 35\%$

8. Answer: B

The number of females who like music in town L = $300 * 2/(3 + 2) = 300 * 2/5 = 120$

Required average = $(240 + 120)/2 = 360/2 = 180$

9. Answer: A

The total number of persons in town N = $210 + 300 + 450 = 960$

The total number of persons in town P = $960 + 120 = 1080$

The number of females in town P = $1080 * 25/100 = 270$

10. Answer: D

Required ratio = $300:120 = 5:2$

Directions (11-15):**Store A:**

The number of bicycles sold = $150 * 2 = 300$

The number of bicycles unsold = $80 * 5/2 = 200$

Store B:

The number of bicycles sold = $90 * 2 = 180$

The number of bicycles unsold = $120 * 5/2 = 300$

Store C:

The number of bicycles sold = $160 * 2 = 320$

The number of bicycles unsold = $50 * 5/2 = 125$

Store D:

The number of bicycles sold = $110 * 2 = 220$

The number of bicycles unsold = $100 * 5/2 = 250$

Store E:

The number of bicycles sold = $180 * 2 = 360$

The number of bicycles unsold = $60 * 5/2 = 150$

Stores	The number of bicycles sold	The number of bicycles unsold
A	300	200
B	180	300
C	320	125
D	220	250
E	360	150

11. Answer: B

The number of bicycles sold in store F = $300 * 110/100 = 330$

The number of bicycles unsold in store F = $200 * 80/100 = 160$

The total number of bicycles manufactured in store F = $330 + 160 = 490$

12. Answer: A

The total number of bicycles manufactured in store B = $180 + 300 = 480$

Required percentage = $360/480 * 100 = 75%$

13. Answer: D

Required difference = $220 - 125 = 95$

14. Answer: C

Maximum number of bicycles unsold = 300 = store B

Minimum number of bicycles sold = 180 = store B

Required average = $(300 + 180)/2 = 480/2 = 240$

15. Answer: B

The total number of bicycles manufactured in store A = $300 + 200 = 500$

The total number of blue bicycles manufactured in store A = $500 * (100 - 52)/100 = 500 * 48/100 = 240$

The number of blue bicycles unsold in store A = $240 - 150 = 90$

16. Answer: A

The total number of yellow and orange rose plants planted on Thursday = $350 - 200 = 150$

The number of yellow rose plants planted on Thursday = $150 * 2/(2 + 1) = 150 * 2/3 = 100$

The total number of yellow and orange rose plants planted on Friday = $450 - 250 = 200$

The number of yellow rose plants planted on Thursday = $200 * 3/(3 + 2) = 200 * 3/5 = 120$
 The total number of yellow rose plants planted on Thursday and Friday together = $100 + 120 = 220$

17. Answer: D

The total number of yellow and orange rose plants planted on Tuesday = $400 - 225 = 175$
 Required difference = $175 - 100 = 75$ more

18. Answer: B

The total number of yellow and orange rose plants planted on Monday = $275 - 150 = 125$
 The total number of yellow and orange rose plants planted on Saturday = $125 + 125 = 250$
 The number of red rose plants planted on Saturday = $250 * 5/(3 + 2) = 250 * 5/5 = 250$

19. Answer: C

The number of yellow rose plants planted on Thursday = $150 * 60/100 = 90$
 The total number of red and orange rose plants planted on Thursday = $350 - 90 = 260$

20. Answer: A

Required percentage = $225/450 * 100 = 50\%$

21. Answer: A

Let the radius of the circle = r
 And the side of the square = a
 $22/7 * r^2 = 38.5$
 $r^2 = 12.25$
 $r = 3.5$ cm

The perimeter of the circle = $2 * 22/7 * 3.5 = 22$ cm

The perimeter of the square = $22 * 8/11 = 16$ cm

The side of the square = $16/4 = 4$ cm

The area of the square = $4 * 4 = 16$ cm²

22. Answer: B

According to given question,

$$5400 * (n+2) * 10/100 = 2700$$

$$n + 2 = 5$$

$$n = 3$$

The actual interest received by Anu = $5400 * 3 * 10/100 = \text{Rs.}1620$

23. Answer: C

Let the cost price of the shirt = $5a$

Marked price of the shirt = $8a$

$$8a * 25/100 - (8a * 75/100 - 5a) = 240$$

$$2a - a = 240$$

$$a = 240$$

The cost price of the shirt = $5 * 240 = \text{Rs.}1200$

24. Answer: D

Let initial quantity of water in the container = $2x$

And initial quantity of Milk in the container = $5x$

According to the question,

$$(5x - 35 * 5/7 + 10) - (2x - 35 * 2/7) = 25$$

$$5x - 15 - 2x + 10 = 25$$

$$3x = 30$$

$$x = 10$$

The initial quantity of water in the container = $2 * 10 = 20$ liters

25. Answer: A

The profit share of Janu = $4200 - 2400 = \text{Rs.}1800$

The ratio of the profit share of Banu to Janu =

$$2400:1800 = 4:3$$

$$(7 * x)/(4 * (x + 5)) = 4/3$$

$$7x * 3 = (4 * (x + 5)) * 4$$

$$21x = 16 * (x + 5)$$

$$21x - 16x = 16 * 5$$

$$x = 80/5$$

$$x = 16$$

26. Answer: D

Let the present age of Rohan = $3x - 3$

And the present age of Mohan = $2x + 6$

And the present age of Sohan = $(2x + 6)/2 = x + 3$

$$3x - 3 - (x + 3) = 24$$

$$2x = 24 + 6$$

$$x = 30/2$$

$$x = 15$$

The present age of Mohan = $2 * 15 + 6 = 30 + 6 =$

36 years

27. Answer: C

Let the speed of train B = a

And the speed of train A = $a + 10$

The length of train B = b

The length of train A = $b * 2/1 = 2b$

$$2b + b = (a + 10 + a) * 15$$

$$3b = (2a + 10) * 15$$

$$3b = 30a + 150 \text{ ---(1)}$$

$$2b = (a + 10) * 15$$

$$b = (15a + 150)/2 \text{ ---(2)}$$

From (1) and (2),

$$3 * (15a + 150)/2 = 30a + 150$$

$$45a + 450 = 60a + 300$$

$$15a = 150$$

$$a = 10$$

The speed of train A = $10 + 10 = 20 \text{ m/sec}$

28. Answer: A

Let the number of balls received by Mandy = $7a$

And the number of balls received by Randy = $3a$

And the number of balls received by Sandy = $11a$

The total number of balls received by Mandy,

Randy and Sandy together = $7a + 3a + 11a = 21a$

$$11a + 3a - 7a = 105$$

$$a = 105/7$$

$$a = 15$$

The total number of balls distributed = $21 * 15 =$

315

29. Answer: B

Q can complete the work = 15 days

P can complete the work = $15 * 4/1 = 60$ days

$$1/60 + 1/15 + 1/R = 1/6$$

$$1/R = 10/60 - (1/60 + 4/60)$$

$$1/R = 5/60$$

$$R = 12$$

The ratio of the efficiency of P, Q, R =

$$(1/60):(1/15):(1/12) = 1:4:5$$

The wages of R = $7500 * 5/(1 + 4 + 5) = 7500 *$

$5/10 = \text{Rs.}3750$

30. Answer: A

Let the speed of the boat in still water = $11x$

And the speed of the stream = $4x$

$$11x + 4x = 240/8$$

$$15x = 30$$

$$x = 2$$

The speed of the boat in still water = $11 * 2 = 22$

km/hr

$$d = 22 * 5$$

$$d = 110 \text{ km}$$

31. Answer: A

$$5 * 2 - 1 = 9$$

$$9 * 2 - 1 = 17$$

$$17 * 2 - 1 = 33$$

$$33 * 2 - 1 = 65$$

$$65 * 2 - 1 = 129$$

32. Answer: E

$$66 + 5 = 71$$

$$71 + 10 = 81$$

$$81 + 20 = 101$$

$$101 + 40 = 141$$

$$141 + 80 = 221$$

33. Answer: B

$$45 + 2 = 47$$

$$47 - 3 = 44$$

$$44 + 5 = 49$$

$$49 - 7 = 42$$

$$42 + 11 = 53$$

34. Answer: C

$$120 \div 2 = 60$$

$$60 * 3 = 180$$

$$180 \div 2 = 90$$

$$90 * 3 = 270$$

$$270 \div 2 = 135$$

35. Answer: D

$$51 + 1^2 = 52$$

$$52 + 3^2 = 61$$

$$61 + 5^2 = 86$$

$$86 + 7^2 = 135$$

$$135 + 9^2 = 216$$

36. Answer: D

$$x^2 + 8x - 65 = 0$$

$$x^2 + 13x - 5x - 65 = 0$$

$$x(x + 13) - 5(x + 13) = 0$$

$$x = -13, +5$$

$$y^2 - 18y + 80 = 0$$

$$y^2 - 10y - 8y + 80 = 0$$

$$y(y - 10) - 8(y - 10) = 0$$

$$y = +10, +8$$

Hence, $x < y$

37. Answer: B

$$x^2 - 2x - 63 = 0$$

$$x^2 - 9x + 7x - 63 = 0$$

$$x(x - 9) + 7(x - 9) = 0$$

$$x = +9, -7$$

$$y^2 + 19y + 84 = 0$$

$$y^2 + 7y + 12y + 84 = 0$$

$$y(y + 7) + 12(y + 7) = 0$$

$$y = -7, -12$$

Hence, $x \geq y$

38. Answer: A

$$2x^2 - 11x + 12 = 0$$

$$2x^2 - 8x - 3x + 12 = 0$$

$$2x(x - 4) - 3(x - 4) = 0$$

$$x = +4, +3/2$$

$$x = +4, +1.5$$

$$y^2 + 13y + 42 = 0$$

$$y^2 + 6y + 7y + 42 = 0$$

$$y(y + 6) + 7(y + 6) = 0$$

$$y = -6, -7$$

Hence, $x > y$ **39. Answer: C**

$$x^2 + 4x - 165 = 0$$

$$x^2 + 15x - 11x - 165 = 0$$

$$x(x + 15) - 11(x + 15) = 0$$

$$x = -15, +11$$

$$y^2 + y - 72 = 0$$

$$y^2 + 9y - 8y - 72 = 0$$

$$y(y + 9) - 8(y + 9) = 0$$

$$y = -9, +8$$

Relationship can't be determined

40. Answer: E

$$5x^2 + x - 22 = 0$$

$$5x^2 - 10x + 11x - 22 = 0$$

$$5x(x - 2) + 11(x - 2) = 0$$

$$x = +2, -11/5$$

$$x = +2, -2.2$$

$$y^2 - 9y + 14 = 0$$

$$y^2 - 7y - 2y + 14 = 0$$

$$y(y - 7) - 2(y - 7) = 0$$

$$y = +7, +2$$

Hence, $x \leq y$

Sample Questions For Memory Based Bundle

Memory Based Bundle Pdf course - IBPS RRB Clerk Prelims held on August 7 - Shift 3

Directions (01-05): Find out the wrong number in the following number series.

1) 21, 26, 36, 51, 66, 96

a) 66

b) 96

c) 51

d) 36

e) 21

2) 7, 9, 18, 20, 40, 43

a) 7

b) 20

c) 18

d) 43

e) 9

3) 50, 51, 55, 64, 80, 100

a) 64

b) 100

c) 51

d) 80

e) 50

4) 16, 8, 8, 16, 128, 512

a) 16

b) 512

c) 128

d) 8

e) None of these

5) 151, 164, 181, 200, 223, 250

a) 151

b) 164

c) 200

d) 223

e) 250

Directions (6-10): Study the following information carefully and answer the questions.

The given table chart shows the number of medical students in four different colleges i.e. P, Q, R and S and also given the number of engineering students in four different colleges and the number of management students in four different colleges.

Colleges	The number of medical students	The number of engineering students	The number of management students
P	250	100	80
Q	140	115	200

R	70	90	165
S	125	300	135

6) The total number of medical and management students together in college S is what percentage more than that of the number of management students in college Q?

a) 30%

b) 10%

c) 25%

d) 18%

e) None of these

7) Find the ratio of the number of engineering students in college S to the total number of medical and engineering students together in college Q?

a) 5:4

b) 10:9

c) 8:7

d) 20:17

e) None of these

8) If the number of medical students in college T is 20% less than that of college P, then find the ratio of the number of medical students in college T to the number of management students in college P?

a) 3:1

b) 5:2

c) 4:7

d) 6:5

e) None of these

9) Find the difference between the total number of engineering students in colleges P and R together and the total number of medical students in colleges Q and R together?

- a) 20
- b) 50
- c) 30
- d) 70
- e) None of these

10) Find the average number of management students in all four colleges?

- a) 130
- b) 170
- c) 105
- d) 145
- e) None of these

Directions (11-13): Read the following information carefully and answer the questions.

There are a certain number of students in two different schools namely A and B and the number of students present in school B on Wednesday is 150. The total number of students present in school B on Monday is half of the total number of students present in the same school on Wednesday. The ratio of the number of students present in school B on Wednesday to Friday is 5:7 and the total number of students present in school A on Wednesday is 20% less than that of school B. The ratio of the number of students

present in school A on Monday, Wednesday and Friday is 5:6:9 respectively.

11) The total number of students present in schools A and B together on Monday is how much less than the number of students present in school A on Friday?

- a) 30
- b) 15
- c) 20
- d) 5
- e) None of these

12) Find the ratio of the number of students present in school B on Friday to the total number of students present in school A on Wednesday and Friday together?

- a) 5:4
- b) 7:10
- c) 8:7
- d) 9:5
- e) None of these

13) The number of students present in school B on Friday is what percentage more than the number of students present in school A on Wednesday?

- a) 75%
- b) 30%
- c) 25%
- d) 40%
- e) None of these

Directions (14-25): What value should come in the place of (?) in the following questions?

14) $\sqrt{80.5} + ? - \sqrt{360.5} = \sqrt{900} + \sqrt{100}$

- a) 20
- b) 50
- c) 10
- d) 30
- e) 40

15) $(15 * 4 + 80 + 25) \div 11 = ?$

- a) 12
- b) 18
- c) 11
- d) 15
- e) 10

16) $37.5\% \text{ of } 480 + 45.5\% \text{ of } 400 = ?$

- a) 174
- b) 236
- c) 362
- d) 185
- e) 208

17) $181 + 359 - ?^2 = 20 * 7$

- a) 11
- b) 25
- c) 17
- d) 20
- e) 13

18) $\sqrt{1600} + \sqrt{625} - \sqrt[3]{?} = 120 \div 2$

- a) 125
- b) 64
- c) 216

d) 343

e) 27

19) $25\% \text{ of } ? + 120 = 40\% \text{ of } 500$

- a) 360
- b) 400
- c) 240
- d) 140
- e) 320

20) $1/6 + 2/3 + 1/4 - 5/12 = ?$

- a) $1/12$
- b) $3/12$
- c) $2/3$
- d) $1/6$
- e) $1/4$

21) $\sqrt{(109.05 + ? + 76)} = 75 \div 5$

- a) 27
- b) 33
- c) 48
- d) 21
- e) 40

22) $216 \div \sqrt{36} + 94.04 + ? = 170.07$

- a) 40
- b) 25
- c) 70
- d) 65
- e) 90

23) $14 * 11 + 16^2 = ?^2 + 310$

- a) 25

- b) 10
- c) 30
- d) 15
- e) 20

24) $1400 - 750 - ? = 25 * 20$

- a) 120
- b) 170
- c) 110
- d) 100
- e) 150

25) $220 \div 2 \div 11 * ? = 210 \div 7 * 5$

- a) 11
- b) 10
- c) 20
- d) 15
- e) 11

26) The side of the square is 2 cm more than the radius of the circle. If the circumference of the circle is 88 cm, then find the area of the square.

- a) 144 cm^2
- b) 324 cm^2
- c) 484 cm^2
- d) 256 cm^2
- e) None of these

27) A boat covers 180 km downstream in 5 hours and the boat covers 54 km upstream in 3 hours. Find the ratio of the speed of the boat in still water to stream.

- a) 3:1

- b) 5:4
- c) 2:1
- d) 7:6
- e) None of these

28) A and B can complete the work in 20 days and 60 days respectively and the ratio of the efficiency of B to C is 1:2. If A, B and C together complete the work and they are gets a total wages of Rs.3300, then find the wages of C?

- a) Rs.1200
- b) Rs.1080
- c) Rs.1100
- d) Rs.1500
- e) None of these

29) A and B entered into a business with an investment of Rs.6000 and Rs.4000 respectively. If the ratio of the profit share of B to A is 4:5, then find the investment period of A to B.

- a) 3:2
- b) 5:6
- c) 4:1
- d) 2:3
- e) None of these

30) The ratio of the age of A to B is 4:3 and the age of B to C is 3:5. If the sum of the age of A and C together is 60 years more than that of B, then find the age of B?

- a) 36 years
- b) 24 years
- c) 45 years

- d) 30 years
- e) None of these

31) The marked price of the mobile is 50% more than its cost price. If the shopkeeper offers a discount of 20% on the marked price, then find the profit percentage of the mobile.

- a) 15%
- b) 12%
- c) 20%
- d) 10%
- e) None of these

32) Mano invested Rs.P in simple interest at the rate of 8% per annum for 5 years and obtained an interest of Rs.380 and Priya invested Rs.(P + 50) in simple interest at the rate of 12% per annum for 5 years. Find the simple interest received by Priya.

- a) Rs.600
- b) Rs.840
- c) Rs.750
- d) Rs.420
- e) None of these

33) A train crosses 280 m platform in 20 seconds and the length of the train is 320 m. If the speed of the train is increased by 100%, then find the time taken by the train to cross the same platform.

- a) 16 seconds
- b) 10 seconds
- c) 15 seconds

- d) 12 seconds
- e) None of these

34) A boy covers d km at the speed of 90 km/hr. If the car covers the same distance at the speed of 72 km/hr, then it takes 2 hours more than the usual time. Find the value of d?

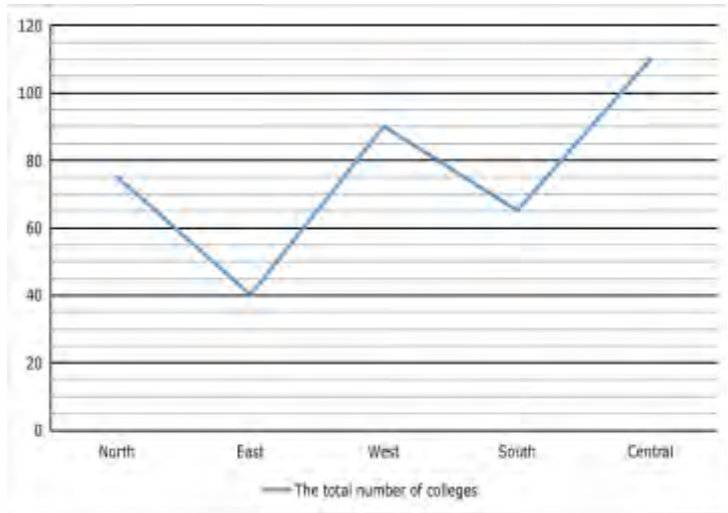
- a) 1440 km
- b) 360 km
- c) 720 km
- d) 480 km
- e) None of these

35) A vessel contains a mixture of milk and water in the ratio of 2:1. If 10 liters of milk and 50 liters of water is added to the mixture, then the ratio of milk and water becomes 7:5. Find the initial quantity of the mixture in the vessel?

- a) 240 liters
- b) 450 liters
- c) 180 liters
- d) 300 liters
- e) None of these

Directions (36-40): Study the following information carefully and answer the questions.

The given line graph shows the total number of colleges in five different regions namely North, East, West, South and Central.



36) If the total number of colleges in North-east region is $\frac{8}{5}$ th of the total number of colleges in North region, then find the ratio of the total number of colleges in North-east region to East region?

- a) 5:6
- b) 1:1
- c) 4:5
- d) 3:1
- e) None of these

37) Find the difference between the total number of colleges in Central region and the total number of colleges in East and South regions together?

- a) 5
- b) 10
- c) 20
- d) 15
- e) None of these

38) Find the ratio of the total number of colleges in West and Central regions together to the total number of colleges in North region?

- a) 7:6
- b) 8:3
- c) 5:4
- d) 2:1
- e) None of these

39) Out of the total number of colleges in East and Central regions, 30 and 70 colleges are private colleges and the remaining colleges are government colleges. Find the total number of government colleges in East and central regions together?

- a) 90
- b) 70
- c) 50
- d) 30
- e) None of these

40) The total number of colleges in West region is what percentage more than of the total number of colleges in North region?

- a) 20%
- b) 45%
- c) 15%
- d) 10%
- e) None of these

Answer Key with Explanation**1. Answer: A**

$21 + 5 = 26$

$26 + 10 = 36$

$36 + 15 = 51$

$51 + 20 = 71$

$71 + 25 = 96$

2. Answer: D

$7 + 2 = 9$

$9 * 2 = 18$

$18 + 2 = 20$

$20 * 2 = 40$

$40 + 2 = 42$

3. Answer: B

$50 + 1^2 = 51$

$51 + 2^2 = 55$

$55 + 3^2 = 64$

$64 + 4^2 = 80$

$80 + 5^2 = 105$

4. Answer: C

$16 * 0.5 = 8$

$8 * 1 = 8$

$8 * 2 = 16$

$16 * 4 = 64$

$64 * 8 = 512$

5. Answer: E

$151 + 13 = 164$

$164 + 17 = 181$

$181 + 19 = 200$

$200 + 23 = 223$

$223 + 29 = 252$

6. Answer: A

The total number of medical and management students together in college S = $125 + 135 = 260$

$$\text{Required percentage} = (260 - 200)/200 * 100 = 60/2 = 30\%$$

7. Answer: D

The total number of medical and engineering students together in college Q = $140 + 115 = 255$

$$\text{Required ratio} = 300:255 = 20:17$$

8. Answer: B

The number of medical students in college T = $250 * (100 - 20)/100 = 250 * 80/100 = 200$

$$\text{Required ratio} = 200:80 = 5:2$$

9. Answer: A

The total number of engineering students in colleges P and R together = $100 + 90 = 190$

The total number of medical students in colleges Q and R together = $140 + 70 = 210$

$$\text{Required difference} = 210 - 190 = 20$$

10. Answer: D

$$\text{Required average} = (80 + 200 + 165 + 135)/4 = 580/4 = 145$$

Directions (11-13)

The number of students present in school B on Wednesday = 150

The number of students present in school B on Monday = $150/2 = 75$

The number of students present in school B on Friday = $150 * 7/5 = 210$

The number of students present in school A on Wednesday = $150 * (100 - 20)/100 = 150 * 80/100 = 120$

The number of students present in school A on Monday = $120 * 5/6 = 100$

The number of students present in school A on Friday = $120 * 9/6 = 180$

Days	The number of students present in school A	The number of students present in school B
Monday	100	75
Wednesday	120	150
Friday	180	210

11. Answer: D

The total number of students present in schools A and B together on Monday = $100 + 75 = 175$

Required difference = $180 - 175 = 5$

12. Answer: B

The total number of students present in school A on Wednesday and Friday together = $120 + 180 = 300$

Required ratio = $210:300 = 7:10$

13. Answer: A

Required percentage = $(210 - 120)/120 * 100 = 90/120 * 100 = 75\%$

14. Answer: B

$\sqrt{80.5 + ?} - \sqrt{360.5} = \sqrt{900} + \sqrt{100}$

$9 + ? - 19 = 30 + 10$

$? = 40 + 19 - 9$

$? = 50$

15. Answer: D

$(15 * 4 + 80 + 25) \div 11 = ?$

$(60 + 105) \div 11 = ?$

$? = 165 \div 11$

$? = 15$

16. Answer: C

$37.5\% \text{ of } 480 + 45.5\% \text{ of } 400 = ?$

$37.5 * 480/100 + 45.5 * 400/100 = ?$

$3/8 * 480 + 45.5 * 4 = ?$

$? = 180 + 182$

$? = 362$

17. Answer: D

$181 + 359 - ?^2 = 20 * 7$

$181 + 359 - ?^2 = 140$

$?^2 = 540 - 140$

$?^2 = 400$

$?^2 = 20^2$

$? = 20$

18. Answer: A

$\sqrt{1600} + \sqrt{625} - \sqrt[3]{?} = 120 \div 2$

$$40 + 25 - \sqrt[3]{?} = 60$$

$$\sqrt[3]{?} = 65 - 60$$

$$\sqrt[3]{?} = 5$$

$$? = 125$$

19. Answer: E

$$25\% \text{ of } ? + 120 = 40\% \text{ of } 500$$

$$25 * ?/100 + 120 = 40 * 500/100$$

$$?/4 + 120 = 200$$

$$?/4 = 200 - 120$$

$$? = 80 * 4$$

$$? = 320$$

60. Answer: C

$$1/6 + 2/3 + 1/4 - 5/12 = ?$$

$$2/12 + 8/12 + 3/12 - 5/12 = ?$$

$$13/12 - 5/12 = ?$$

$$? = 8/12$$

$$? = 2/3$$

21. Answer: E

$$\sqrt{(109.05 + ? + 76)} = 75 \div 5$$

$$\sqrt{(109 + ? + 76)} = 15$$

$$185 + ? = 225$$

$$? = 225 - 185$$

$$? = 40$$

22. Answer: A

$$216 \div \sqrt{36} + 94.04 + ? = 170.07$$

$$216 \div 6 + 94 + ? = 170$$

$$36 + 94 + ? = 170$$

$$? = 170 - 130$$

$$? = 40$$

23. Answer: B

$$14 * 11 + 16^2 = ?^2 + 310$$

$$154 + 256 = ?^2 + 310$$

$$?^2 = 410 - 310$$

$$?^2 = 100$$

$$?^2 = 10^2$$

$$? = 10$$

24. Answer: E

$$1400 - 750 - ? = 25 * 20$$

$$650 - ? = 500$$

$$? = 150$$

25. Answer: D

$$220 \div 2 \div 11 * ? = 210 \div 7 * 5$$

$$10 * ? = 30 * 5$$

$$? = 150/10$$

$$? = 15$$

26. Answer: D

Let the radius of the circle = r

$$2 * 22/7 * r = 88$$

$$r = 14$$

The side of the square = $14 + 2 = 16$ cm

The area of the square = $16 * 16 = 256$ cm²

27. Answer: A

The downstream speed of the boat = $180/5 = 36$ km/hr

The upstream speed of the boat = $54/3 = 18$ km/hr

The speed of the boat in still water = $(36 + 18)/2 = 54/2 = 27$ km/hr

The speed of the stream = $36 - 27 = 9$ km/hr

Required ratio = $27:9 = 3:1$

28. Answer: C

C can complete the work = $60 * 1/2 = 30$ days

The ratio of the efficiency of A, B and C =

$1/20:1/60:1/30 = 3:1:2$

The wages of C = $3300 * 2/(3 + 1 + 2) = 3300 * 2/6 = \text{Rs.}1100$

29. Answer: B

Let the investment period of A = x

And the investment period of B = y

$(x * 6000)/(y * 4000) = 5/4$

$x/y = 5/6$

30. Answer: D

$4x + 5x - 3x = 60$

$9x - 3x = 60$

$x = 60/6$

$x = 10$

The age of B = $3 * 10 = 30$ years

31. Answer: C

Let the cost price of the mobile = $2x$

And the marked price of the mobile = $2x * 150/100 = 3x$

$150/100 = 3x$

The selling price of the table = $3x * 80/100 = 12x/5$

$12x/5$

Profit % = $(12x/5 - 2x)/2x * 100 = (2x/5)/2x * 100$

= 20%

32. Answer: A

$P * 8 * 5/100 = 380$

$P = 950$

The simple interest received by Priya = $(950 + 50)$

$* 12 * 5/100$

= $1000 * 12 * 5/100$

= Rs.600

33. Answer: B

Let the speed of the train = x m/sec

$320 + 280 = x * 20$

$x = 600/20$

$x = 30$

The speed of the train is increased by 100% = 30

$* 200/100 = 60$ m/sec

Required time = $(320 + 280)/60 = 600/60 = 10$

seconds

34. Answer: C

$d/72 - d/90 = 2$

$5d - 4d = 2 * 360$

$d = 720$

35. Answer: D

$(2x + 10)/(x + 50) = 7/5$

$10x + 50 = 7x + 350$

$3x = 300$

$x = 100$

The initial quantity of mixture in the vessel = $(2 +$

$1) * 100 = 3 * 100 = 300$ liters

36. Answer: D

The total number of colleges in North-east region

$$= 75 * 8/5 = 120$$

$$\text{Required ratio} = 120:40 = 3:1$$

37. Answer: A

The total number of colleges in East and South

$$\text{regions} = 40 + 65 = 105$$

$$\text{Required difference} = 110 - 105 = 5$$

38. Answer: B

The total number of colleges in West and Central

$$\text{regions} = 110 + 90 = 200$$

$$\text{Required ratio} = 200:75 = 8:3$$

39. Answer: C

The total number of government colleges in East

$$\text{regions} = 40 - 30 = 10$$

The total number of government colleges in

$$\text{Central regions} = 110 - 70 = 40$$

$$\text{Required total} = 10 + 40 = 50$$

40. Answer: A

$$\text{Required percentage} = (90 - 75)/75 * 100 = 15/75$$

$$* 100 = 20\%$$

RRB PO Mains 2022 Memory Based Paper held on 1st October 2022

Directions (1-5): Read the following information carefully and answer the given questions.

The given below table chart shows the number of employees in HR department in four different companies namely A, B, C and D and also given the difference between the number of employees in HR and finance departments in these four different companies.

Company	Number of employees in HR department	Difference between the number of employees in HR and Finance department
A	$x + 300$	330
B	Y	240
C	500	100
D	$z^2 + 380$	480

A	$x + 300$	330
B	Y	240
C	500	100
D	$z^2 + 380$	480

The given below table shows the ratio of the number of employees in HR to Finance department in four different companies namely A, B, C and D.

Company	Employees in HR : Employees in Finance department
A	4:7

B	3:5
C	$P > Q$
D	8:5

1) Find the difference between the average number of employees in HR department of Company A, C and D and the average number of employees in finance department of Company B,C and D.

- a) 180
- b) 160
- c) 120
- d) 140
- e) None of these

2) In Company D, the number of undergraduate employees in HR department is 66.66% more than the number of postgraduate employees in the same department and the number of undergraduate employees in finance department is 40% less than the number of post graduate employees in the same department. Find the total number of postgraduate employees in Company D.

- a) 980
- b) 924
- c) 965
- d) 942
- e) None of these

3) In Company C, if the ratio of the number of employees in HR and finance department are interchanged and after interchanging, 40% of the employees in HR department are senior employees and the Junior employees is 50% more than the senior employees in finance department. Find the total number of senior employees in Company C.

- a) 340
- b) 360
- c) 300
- d) 320
- e) None of these

4) Out of the total number of employees in HR department of Company B, $\frac{3}{5}$ th of the employees are higher level and the remaining employees are middle order and lower order employees in the ratio of 7:5. Out of the total number of employees in finance department of Company B, 25% of the employees are high level and the remaining employees are divided as X level and Y level employees in the ratio of 4:5. The total number of middle level HR employees and X level finance employees together in company B is approximately what percentage of the total number of HR and Finance employees in Company B?

- a) 30%
- b) 40%
- c) 35%
- d) 24%
- e) 27%

5) 40% of the employees in HR department of Company A are females and the ratio of the number of male to female employees in Finance department in Company A is 3:4. Ratio of the male to female employees in HR and finance department together in Company D is 3:1. Find the difference between the total number of male employees in HR and finance department of Company A and Company D.

- a) 999
- b) 928
- c) 966
- d) 954
- e) None of these

Directions (6-8): Following questions contain two statements as statement I and statement II. You have to determine which statement/s is/are necessary to answer the question and give answer as,

6) A rectangular path is made around a rectangular garden and the length of the garden is 6 m more than its breadth. Find the width of the rectangular path.

Statement I: Area of the square is 64 m^2 more than the area of the rectangle and the side of the square is 4 m more than the breadth of the rectangle.

Statement II: The total cost accrued while constructing the rectangular path is Rs.14400 and the construction cost of the path is Rs.40 per m^2 .

- a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- c) The data either in statement I alone or in statement II alone is sufficient to answer the question
- d) The data given in both statements I and II together are not sufficient to answer the question
- e) The data given in both statements I and II together are necessary to answer the question.

7) A and B entered into a partnership with an investment of Rs.3000 and Rs.x respectively and after 6 months, C entered the partnership with an investment of Rs.(x + 1500). Find the investment of C.

Statement I: At the end of the year, the total profit obtained is Rs.7000 and the profit obtained by C is Rs.2000.

Statement II: At the end of one year, the ratio of the profit obtained by A, B and C is 2:3:2.

- a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- c) The data either in statement I alone or in statement II alone is sufficient to answer the question

- d) The data given in both statements I and II together are not sufficient to answer the question
- e) The data given in both statements I and II together are necessary to answer the question.

8) A shopkeeper sold three articles namely A, B and C and the Ratio of the cost price of A to B is 5:6 and the cost price of C is Rs.4000. The shopkeeper marked the price of the articles by 80%, 45% and 60% respectively. Find the sum of the selling price of B and the marked price of A.

Statement I: The shopkeeper sold article C for Rs. after giving a discount of 30% and the shopkeeper sold article B after giving a discount of 25%. The marked price of article C is 28% more than the cost price of article A.

Statement II: Ratio of the marked price of article C to the selling price of article A is 4:5.

- a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question
- b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question
- c) The data either in statement I alone or in statement II alone is sufficient to answer the question
- d) The data given in both statements I and II together are not sufficient to answer the question
- e) The data given in both statements I and II together are necessary to answer the question.

Directions (9-10): Following questions have two quantities as Quantity I and Quantity II. You have to determine the relationship between them and give answer as

9) The area of the rhombus is 240 m^2 and the length of one of the diagonals of the rhombus is 24 m.

Quantity I: If the area of the rhombus is 20 m^2 less than the area of the rectangle and the length of the rectangle is equal to the shortest length of the diagonals of the rhombus, then find the breadth of the rectangle.

Quantity II: Find the side of the rhombus

- a) Quantity I > Quantity II
- b) Quantity I \geq Quantity II
- c) Quantity I < Quantity II
- d) Quantity I \leq Quantity II
- e) Quantity I = Quantity II or Relation cannot be established

Quantity I < Quantity II

10) There are three two digit numbers namely A, B and C. The unit digits of all three numbers are odd and the tens digits of all the three numbers are even. A is the largest possible number and C is the smallest possible number.

Quantity I: If each number is divided by 2, then find the sum of their remainder

Quantity II: The average of the numbers A, B and C is 51. Find the sum of the digits of the number B.

- a) Quantity I > Quantity II
- b) Quantity I \geq Quantity II
- c) Quantity I < Quantity II

- d) Quantity I \leq Quantity II
- e) Quantity I = Quantity II or Relation cannot be established

Directions (11-15): What value should come in the place of (?) in the following number series?

11) 100, 152, 382, 1339, ?, 33153.25

- a) 6027.5
- b) 3708.5
- c) 4025.5
- d) 7549.5
- e) 5903.5

12) 80, 45, 50, 80, 165, ?

- a) 304.5
- b) 276.5
- c) 417.5
- d) 353.5
- e) 252.5

13) 10, 34, 66, 108, 162, ?

- a) 230
- b) 195
- c) 184
- d) 208
- e) 210

14) 15, ?, 1279, 7679, 30719, 61439

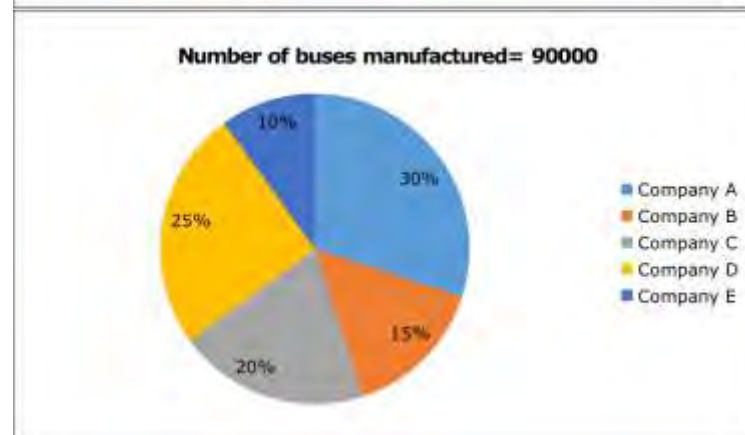
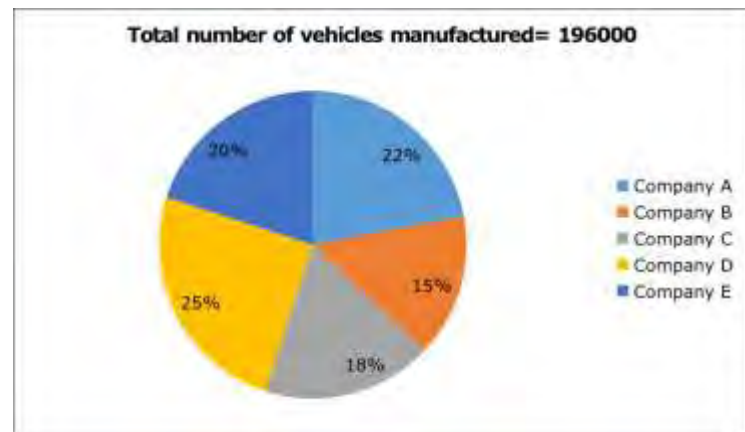
- a) 757
- b) 521
- c) 379
- d) 485
- e) 159

15) 33, ?, 176, 224, 259, 283

- a) 78
- b) 91
- c) 102
- d) 113
- e) 84

Directions (16-20): Read the following information carefully and answer the given questions.

The given below pie chart shows the percentage distribution of the total number of vehicles (cars + buses) manufactured by five different companies namely A, B, C, D and E.



16) The total number of vehicles manufactured by company C is what percentage less than the

total number of cars manufactured by companies B and D together?

- a) 20%
- b) 35%
- c) 15%
- d) 42%
- e) 17%

17) If the number of buses manufactured by company X is 40% less than that of company B and the ratio of the number of cars to buses manufactured by company X is 5:9, then find the difference between the number of cars manufactured by companies E and C?

- a) 26400
- b) 23700
- c) 24200
- d) 27100
- e) 25700

18) If the total number of vehicles manufactured by company E increased by 25% and the number of cars manufactured by company E increased by 30%, then find the difference between the number of cars and buses manufactured by company E after the increase?

- a) 29520
- b) 20400
- c) 21800
- d) 25600
- e) None of these

19) If the number of bikes manufactured by company R is equal to the average number of

buses manufactured by companies A and C together, then find the ratio of the number of bikes manufactured by company R to the number of buses manufactured by company E?

- a) 7:9
- b) 1:1
- c) 5:2
- d) 9:5
- e) 3:2

20) Out of the total number of cars and buses manufactured by company C, 40% of the cars are damaged and 25% of the buses are damaged. If the total number of damaged vehicles manufactured by company F is $\frac{5}{6}$ th of the total number of damaged vehicles manufactured by company C, then find the total number of damaged vehicles manufactured by company F.

- a) 7900
- b) 9510
- c) 9600
- d) 8500
- e) None of these

Directions (21-25): Read the following information carefully and answer the given questions.

Three bags i.e., A, B and C and each bag contains three types of coins namely gold, silver and copper. The total number of coins in all three bags is 1510 and the total number of coins in Bag A and Bag B is 580 and 510 respectively. The ratio of the number of gold coins in Bag C to

the number of copper coins in Bag A to the number of copper coins in Bag B is 4:3:2. The number of silver coins in Bag B is 60 more than the number of copper coins in the same bag. The number of gold coins in Bag B is 25% less than the number of silver coins in Bag A. The total number of copper coins in all three bags together to the total number of silver coins in all three bags is 20:27. The total number of gold coins in all the bags together is 570.

21) If the total number of coins in bag D is 25% more than that of bag A and the ratio of the number of gold and silver coins in bag D is 3:2 and the number of copper coins in bag D is double the number of copper coins in bag C, then find the number of gold coins in bag D?

- a) 275
- b) 315
- c) 445
- d) 185
- e) 235

22) The total number of silver coins in bags A and B together is how much more/less than the total number of copper coins in bags B and C together?

- a) 280 more
- b) 510 less
- c) 330 more
- d) 240 more
- e) 170 less

23) If the total number of platinum coins in all three bags is 120% of the total number of copper

coins in all three bags, then find the ratio of the total number of platinum coins in all three bags together to the total number of silver coins in all three bags together?

- a) 8:9
- b) 5:3
- c) 2:1
- d) 7:4
- e) None of these

24) Out of the total number of coins in bag T, 30% of the coins are gold, 45% of the coins are silver and the remaining coins are copper. If the ratio of the number of copper coins in bag A to bag T is 3:5, then the number of gold coins in bag C is approximately what percentage of the number of gold coins in bag T?

- a) 78%
- b) 45%
- c) 67%
- d) 51%
- e) 58%

25) Find the ratio of the number of gold coins in bag B to the average number of gold, silver and copper coins in bag C?

- a) 7:9
- b) 10:11
- c) 17:8
- d) 5:4
- e) 3:2

26) Vessel A contains 60 liters of pure milk and 10 liters of the milk is removed and same

quantity of water is added in Vessel A. 60% of the mixture is removed from vessel A. Vessel B contains a mixture of milk and honey in the ratio of 3:2 and the quantity of mixture in vessel B is 16 liters more than the final mixture in Vessel A. If the quantity of mixtures of both vessels are mixed, then find the ratio of milk, water and honey.

- a) 11:1:4
- b) 4:1:11
- c) 4:11:1
- d) 1:5:4
- e) None of these

27) Raju spends 20% of his monthly income in food and out of the remaining income, he spends 30% of income in education and spends the rest of the amount in rent and savings together. Ratio of the amount spend on rent to the amount saved is 9:5 and the sum of the amount spend in food and rent is Rs.8400. Find the monthly income of Raju.

- a) Rs.14000
- b) Rs.13000
- c) Rs.15000
- d) Rs.12000
- e) None of these

Directions (28-30): What value should come in the place of (?) in the following questions?

$$28) \sqrt{2025} * 4 - ? + 15^2 = \sqrt{4900} + 350 \div 2$$

- a) 150
- b) 190
- c) 130

- d) 110
- e) 160

$$29) 21\% \text{ of } 1100 \div \sqrt{?} = 315 \div 45 * \sqrt{81}$$

- a) 121
- b) 225
- c) 100
- d) 81
- e) 324

$$30) 220.5 \div 3 - 13 * 7 + ? * 1.5 = 950 \div 4$$

- a) 190
- b) 130
- c) 170
- d) 150
- e) 110

31) Volume of the cone is 40 m² more than the volume of the cuboid and the radius and height of the cone is 7 m and 12 m respectively and the length of the cuboid is equal to the height of the cone. If the height of the cuboid is 2 m less than the breadth of the cuboid, then find the breadth of the cuboid.

- a) 10 m
- b) 8 m
- c) 7 m
- d) 4 m
- e) 12 m

32) Valar and Malar entered into a business with an investment of Rs.8000 and Rs.x respectively. After 6 months, Priya joined the business with an investment of Rs.(x-1000). At the end of the

year, the profit share of Priya is 62.5% of the profit share of Valar. Find the investment of Priya?

- a) Rs.11000
- b) Rs.15000
- c) Rs.12000
- d) Rs.10000
- e) Rs.9000

33) Train A starts from Mumbai to Pune at 7.00 am and Train B starts from Pune to Mumbai at 9.30 am and the distance between Mumbai to Pune is 900 m and both the trains meet at 5.30 am. If the length of Train A is 400 m and it crosses an electric pole in 36 seconds, then find the speed of Train B in km/hr.

- a) 50 km/hr
- b) 48 km/hr
- c) 60 km/hr
- d) 45 km/hr
- e) None of these

34) A invested Rs.x in CI at 40% rate of interest per annum for 4 years and obtained an interest of Rs.35520. B invested a certain amount in SI at 35% rate of interest per annum for 6 years and obtained an interest of Rs.(x + 4300). Find the amount invested by B.

- a) Rs.9600
- b) Rs.8000
- c) Rs.9000
- d) Rs.8400
- e) None of these

35) A bag contains 6 white balls and 4 red balls and 8 blue balls. Find the probability of selecting 2 red balls in the bag.

- a) $10/21$
- b) $11/13$
- c) $17/25$
- d) $2/51$
- e) None of these

36) A man bought a purse and a watch for a certain cost. The marked price of the watch is 75% more than the marked price of the purse and the marked price of the purse is Rs.500 above the cost price of purse and gives a discount of 20% and 30% on purse and watch respectively. Find the cost price of the watch, if the profit obtained by selling the purse is Rs.100 and sold the watch at a loss of 2%.

- a) Rs.2500
- b) Rs.2000
- c) Rs.2200
- d) Rs.1800
- e) None of these

37) Ratio of the speed of the current to the sum of the downstream and upstream speed of the boat is 1:9 and the distance travelled by the boat in downstream in 5 hours is 30 km less than the distance travelled by the boat in upstream in 10 hours. Find the speed of the boat in still water.

- a) 22 km/hr
- b) 18 km/hr
- c) 16 km/hr
- d) 20 km/hr

e) None of these

Directions (38-40): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

as,

38)

I) $2x^2 - 27x + 90 = 0$

II) $y^2 - 3y - 54 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

39)

Directions (1-5):

Company A,

Number of employees in HR department = $330 * \frac{4}{7-4} = 330 * \frac{4}{3} = 440$

$4/(7 - 4) = 330 * \frac{4}{3} = 440$

Number of employees in finance department =

$330 * \frac{7}{(7 - 4)} = 330 * \frac{7}{3} = 770$

$x + 300 = 440$

$x = 140$

Company B,

Number of employees in HR department = $240 * \frac{3}{5-3} = 240 * \frac{3}{2} = 360$

$3/(5 - 3) = 240 * \frac{3}{2} = 360$

Number of employees in finance department =

$240 * \frac{5}{(5 - 3)} = 240 * \frac{5}{2} = 600$

$y = 360$

I) $x^2 - 2x - 63 = 0$

II) $y^2 + 30y + 189 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

40)

I) $3x^2 + 14x + 15 = 0$

II) $4y^2 + 19y + 22 = 0$

a) $x > y$

b) $x \geq y$

c) $x = y$ or relationship can't be determined.

d) $x < y$

e) $x \leq y$

Answer Key with Explanation

Company C,

Number of employees in HR department = 500

$P > Q$

Number of employees in finance department =

$500 - 100 = 400$

$P:Q = 500:400 = 5:4$

Company D,

Number of employees in HR department = $480 * \frac{8}{8-5} = 480 * \frac{8}{3} = 1280$

$8/(8 - 5) = 480 * \frac{8}{3} = 1280$

Number of employees in finance department =

$480 * \frac{5}{(8 - 5)} = 480 * \frac{5}{3} = 800$

$z^2 + 380 = 1280$

$z^2 = 900$

$z = 30$

Company	Number of employees in HR department	Number of employees in finance department
A	440	770
B	360	600
C	500	400
D	1280	800

1. Answer: D

Required difference = $(440 + 500 + 1280)/3 - (600 + 400 + 800)/3 = 2220/3 - 1800/3 = 740 - 600 = 140$

2. Answer: A

Ratio of the number of undergraduate to postgraduate employees in HR department of Company D = 5:3

Number of post graduate employees in HR department of Company D = $1280 * 3/8 = 480$

Ratio of the number of undergraduate to postgraduate employees in finance department of Company D = 3:5

Number of post graduate employees in finance department of Company D = $800 * 5/8 = 500$

Required sum = $480 + 500 = 980$

3. Answer: B

Number of employees in HR department of Company C = 400

Number of employees in finance department of Company C = 500

Number of senior employees in HR department of Company C = $400 * 40/100 = 160$

Ratio of the number of senior to junior employees in finance department of Company C = 2:3

Number of senior employees in finance department of Company C = $500 * 2/5 = 200$

Total number of senior employees in Company C = $160 + 200 = 360$

4. Answer: A

Number of higher authority employees in HR department of Company B = $360 * 3/5 = 216$

Number of middle order employees in HR department of company B = $(360 - 216) * 7/12 = 144 * 7/12 = 84$

Number of higher authority employees in finance department of Company B = $600 * 25/100 = 150$

Number of X category employees in finance department of Company B = $(600 - 150) * 4/9 = 450 * 4/9 = 200$

Required percentage = $(84 + 200)/(360 + 600) * 100 = 284/960 * 100 = 30\%$ (approx.)

5. Answer: C

Number of male employees in HR department of Company A = $440 * 60/100 = 264$

Number of male employees in finance department of Company A = $770 * 3/7 = 330$

Total number of male employees in HR and finance department together of Company D = $(1280 + 800) * 3/4 = 2080 * 3/4 = 1560$

Required difference = $1560 - (264 + 330) = 1560 - 594 = 966$

6. Answer: E

Let the breadth of the rectangle be x m and the length of the rectangle be $(x + 6)$ m.

From statement I,

$$a = (x + 4) \text{ m}$$

$$(x + 4)^2 - 64 = x * (x + 6)$$

$$x^2 + 8x + 16 - 64 = x^2 + 6x$$

$$2x = 48$$

$$x = 24 \text{ m}$$

$$\text{Length of the rectangle} = 24 + 6 = 30 \text{ m}$$

$$\text{Breadth of the rectangle} = 24 \text{ m}$$

So, Statement I alone is not sufficient to answer the question.

From statement II,

Let the width of the rectangular path be y m.

$$\text{Area of the rectangular path} = 14400/40 = 360 \text{ m}^2$$

So, statement II alone is not sufficient to answer the question.

From I and II,

$$(2y + 30) * (24 + 2y) - (30 * 24) = 360$$

$$4y^2 + 60y + 48y = 360$$

$$4y^2 + 108y - 360 = 0$$

$$\div 4$$

$$y^2 + 27y - 90 = 0$$

$$y^2 + 30y - 3y - 90 = 0$$

$$y(y + 30) - 3(y + 30) = 0$$

$$y = 3, -30$$

$$\text{Width of the rectangular path} = 3 \text{ m}$$

Both statements are necessary to answer the question.

7. Answer: C

From statement I,

$$(3000 * 12 + x * 12) / ((x + 1500) * 6) = (7000 - 2000) / 2000$$

$$(6000 + 2x) / (x + 1500) = 5/2$$

$$12000 + 4x = 5x + 7500$$

$$x = \text{Rs.}4500$$

$$\text{Investment of C} = 4500 + 1500 = \text{Rs.}6000$$

So, Statement I alone is sufficient to answer the question.

From statement II,

$$(3000 * 12) / (x * 12) = 2/3$$

$$3000/x = 2/3$$

$$x = \text{Rs.}4500$$

$$\text{Investment of C} = 4500 + 1500 = \text{Rs.}6000$$

So, statement II alone is sufficient to answer the question.

8. Answer: A

From statement I,

$$\text{Cost price of article C} = \text{Rs.}4000$$

$$\text{Marked price of article C} = 4000 * 160/100 = \text{Rs.}6400$$

$$\text{Selling price of article C} = 6400 * 70/100 = \text{Rs.}4480$$

$$\text{Cost price of article A} = 6400 * 100/128 = \text{Rs.}5000$$

$$\text{Marked price of article A} = 5000 * 180/100 = \text{Rs.}9000$$

$$\text{Cost price of article B} = 5000 * 6/5 = \text{Rs.}6000$$

$$\text{Marked price of article B} = 6000 * 145/100 = \text{Rs.}8700$$

$$\text{Selling price of article B} = 8700 * 75/100 = \text{Rs.}6525$$

Required sum = $9000 + 6525 = \text{Rs.}15525$

So, Statement I alone is sufficient to answer the question.

From statement II,

Ratio of the marked price of article C to the selling price of the article A is 4:5

Marked price of article C = $4000 * 160/100 = \text{Rs.}6400$

Selling price of article A = $6400 * 5/4 = \text{Rs.}8000$

So, statement II alone is not sufficient to answer the question.

9. Answer: C

Let the length of the other diagonal of the rhombus be x m.

$$1/2 * 24 * x = 240$$

$$x = 20 \text{ m}$$

From Quantity I,

$$\text{Area of the rectangle} = 240 + 20 = 260 \text{ m}^2$$

$$\text{Length of the rectangle} = 20 \text{ m}$$

$$\text{Breadth of the rectangle} = 260/20 = 13 \text{ m}$$

From Quantity II,

$$\text{Side of the rhombus} = \sqrt{((24/2)^2 + (20/2)^2)} = \sqrt{(12^2 + 10^2)} = \sqrt{(144 + 100)} = \sqrt{244} = 15.65 \text{ m}$$

10. Answer: C

A = 89 (largest number with even tens digit)

C = 21 (smallest number with even tens digit)

From Quantity I,

Each number is divided by 2, then the remainders will be 1 (because the last digit is odd number)

$$\text{Sum of the remainders} = 1 + 1 + 1 = 3$$

From Quantity II,

$$A + B + C = 51 * 3 = 153$$

$$89 + B + 21 = 153$$

$$B = 43$$

$$\text{Sum of the digits of B} = 4 + 3 = 7$$

11. Answer: A

$$100 * 1.5 + 2 = 152$$

$$152 * 2.5 + 2 = 382$$

$$382 * 3.5 + 2 = 1339$$

$$1339 * 4.5 + 2 = 6027.5$$

$$6027.5 * 5.5 + 2 = 33153.25$$

12. Answer: C

$$80 * 0.5 + 5 = 45$$

$$45 * 1 + 5 = 50$$

$$50 * 1.5 + 5 = 80$$

$$80 * 2 + 5 = 165$$

$$165 * 2.5 + 5 = 417.5$$

13. Answer: A

10	34	66	108	162	230
	24	32	42	54	68
		8	10	12	14

14. Answer: E

$$15 * 10 + 9 = 159$$

$$159 * 8 + 7 = 1279$$

$$1279 * 6 + 5 = 7679$$

$$7679 * 4 + 3 = 30719$$

$$30719 * 2 + 1 = 61439$$

15. Answer: D

33	113	176	224	259	283
----	-----	-----	-----	-----	-----

80 63 48 35 24
17 15 13 11

Directions (16-20):**Company A:**

Total number of vehicles manufactured = 196000

* $22/100 = 43120$

Number of buses manufactured = $90000 * 30/100 = 27000$

Number of cars manufactured = $43120 - 27000 = 16120$

Company B:

Total number of vehicles manufactured = 196000

* $15/100 = 29400$

Number of buses manufactured = $90000 * 15/100 = 13500$

Number of cars manufactured = $29400 - 13500 = 15900$

Company C:

Total number of vehicles manufactured = 196000

* $18/100 = 35280$

Number of buses manufactured = $90000 * 20/100 = 18000$

Number of cars manufactured = $35280 - 18000 = 17280$

Company D:

Total number of vehicles produced = 196000 *

$25/100 = 49000$

Number of buses produced = $90000 * 25/100 = 22500$

Number of cars produced = $49000 - 22500 = 26500$

Company E:

Total number of vehicles manufactured = 196000

* $20/100 = 39200$

Number of buses manufactured = $90000 * 10/100 = 9000$

Number of cars manufactured = $39200 - 9000 = 30200$

Company	Total number of vehicles manufactured	Number of buses manufactured	Number of cars manufactured
A	43120	27000	16120
B	29400	13500	15900
C	35280	18000	17280
D	49000	22500	26500
E	39200	9000	30200

16. Answer: E

The total number of cars manufactured by companies B and D together = $15900 + 26500 = 42400$

Required percentage = $[(42400 - 35280)/42400] * 100 = (7120/42400) * 100 = 16.79\% = 17\%$ (approx.)

17. Answer: E

The number of buses manufactured by company

$$X = 13500 * (100 - 40)/100 = 13500 * 60/100 = 8100$$

The number of cars manufactured by company X
= $8100 * 5/9 = 4500$

$$\text{Required difference} = 30200 - 4500 = 25700$$

18. Answer: A

The new total number of vehicles manufactured
by company E = $39200 * 125/100 = 49000$

The new number of cars manufactured by
company E = $30200 * 130/100 = 39260$

The new number of buses manufactured by
company E = $49000 - 39260 = 9740$

$$\text{Required difference} = 39260 - 9740 = 29520$$

19. Answer: C

The number of bikes manufactured by company

$$R = (27000 + 18000)/2 = 45000/2 = 22500$$

$$\text{Required ratio} = 22500:9000 = 5:2$$

20. Answer: B

The number of damaged cars manufactured by
company C = $17280 * 40/100 = 6912$

The number of damaged buses manufactured by
company C = $18000 * 25/100 = 4500$

The total number of damaged vehicles
manufactured by company C = $6912 + 4500 = 11412$

The total number of damaged vehicles
manufactured by company F = $11412 * 5/6 = 9510$

Directions (21-25):

Total number of coins in Bag A = 580

Total number of coins in Bag B = 510

Total number of coins in Bag C = $1510 - 580 - 510 = 420$

Total number of gold coins in all bags together = 570

Total number of silver coins and copper coins in
all bags together = $1510 - 570 = 940$

Total number of silver coins in all bags together =
 $940 * 27/47 = 540$

Total number of copper coins in all bags together
= $940 - 540 = 400$

Number of copper coins in Bag A = $3x$

Number of copper coins in Bag B = $2x$

Number of gold coins in Bag C = $4x$

Number of silver coins in Bag B = $2x + 60$

Number of gold coins in Bag B = $510 - 2x - 60 - 2x = 450 - 4x$

Number of silver coins in Bag A = $(450 - 4x) * 100/75 = (450 - 4x) * 4/3$

Number of gold coins in Bag A = $570 - 450 + 4x - 4x = 120$

According to given information,

$$120 + (450 - 4x) * 4/3 + 3x = 580$$

$$(1800 - 16x)/3 + 3x = 460$$

$$(1800 - 16x + 9x)/3 = 460$$

$$1800 - 7x = 1380$$

$$7x = 420$$

$$x = 60$$

Number of copper coins in Bag A = $3 * 60 = 180$

Number of copper coins in Bag B = $2 * 60 = 120$

Number of gold coins in Bag C = $4 * 60 = 240$

Number of silver coins in Bag B = $120 + 60 = 180$

Number of gold coins in Bag B = $450 - 4 * 60 = 210$

Number of silver coins in Bag A = $210 * 4/3 = 280$

Number of silver coins in Bag C = $540 - 280 - 180 = 80$

Number of copper coins in Bag C = $400 - 180 - 120 = 100$

Bag	Total number of coins	Number of gold coins	Number of silver coins	Number of copper coins
A	580	120	280	180
B	510	210	180	120
C	420	240	80	100
Total	1510	570	540	400

21. Answer: B

The total number of coins in bag D = $580 * 125/100 = 725$

The number of copper coins in bag D = $100 * 2 = 200$

The number of gold and silver coins in bag D = $725 - 200 = 525$

The number of gold coins in bag D = $525 * 3/(3 + 2) = 525 * 3/5 = 315$

22. Answer: D

The total number of silver coins in bags A and B together = $280 + 180 = 460$

The total number of copper coins in bags B and C together = $120 + 100 = 220$

Required difference = $460 - 220 = 240$ more

23. Answer: A

The total number of silver coins in all three bags = 540

The total number of platinum coins in all three bags = $400 * 120/100 = 480$

Required ratio = $480:540 = 8:9$

24. Answer: C

The number of copper coins in bag T = $180 * 5/3 = 300$

The number of gold coins in bag T = $300 * 30/(100 - 30 - 45) = 300 * 30/25 = 360$

Required percentage = $240/360 * 100 = 66.67\% = 67\%$ (approx.)

25. Answer: E

The average number of silver, gold and copper coins in bag C = $420/3 = 140$

Required ratio = $210:140 = 3:2$

26. Answer: A

Quantity of pure milk in vessel A = 60 liters

Quantity of milk in vessel A after removing 10 liters of milk = $60 - 10 = 50$ liters

Ratio of quantity of milk to water in vessel A = $50:10 = 5:1$

60% of the mixture is removed from vessel A = $60 * 60/100 = 36$ liters

Final quantity of milk in vessel A = $50 - 36 * \frac{5}{6} = 20$ liters

Final quantity of water in vessel A = $10 - 36 * \frac{1}{6} = 4$ liters

Quantity of mixture in vessel B = $(20 + 4 + 16) = 40$ liters

Quantity of milk in vessel B = $40 * \frac{3}{5} = 24$ liters

Quantity of honey in vessel B = $40 - 24 = 16$ liters

Required ratio = $(20 + 24) : 4 : 16 = 44:4:16 = 11:1:4$

27. Answer: C

Let the monthly income of Raju be $100x$

Income spend on food = $100x * \frac{20}{100} = 20x$

Remaining income = $100x - 20x = 80x$

Income spend on education = $80x * \frac{30}{100} = 24x$

Income spend on rent and the income saved together = $80x - 24x = 56x$

Income spend on rent = $56x * \frac{9}{14} = 36x$

Income saved = $56x - 36x = 20x$

$20x + 36x = 8400$

$56x = 8400$

$x = 150$

Therefore, the monthly income of Raju = $150 * 100 = \text{Rs.}15000$

28. Answer: E

$\sqrt{2025 * 4 - ? + 15^2} = \sqrt{4900 + 350 \div 2}$

$45 * 4 - ? + 225 = 70 + 175$

$180 + 225 = 245 + ?$

$? = 405 - 245$

$? = 160$

29. Answer: A

$21\% \text{ of } 1100 \div \sqrt{?} = 315 \div 45 * \sqrt[3]{81}$

$21\% * 1100 \div \sqrt{?} = 7 * 3$

$231 \div \sqrt{?} = 21$

$\sqrt{?} = 231 \div 21$

$\sqrt{?} = 11$

$? = 121$

30. Answer: C

$220.5 \div 3 - 13 * 7 + ? * 1.5 = 950 \div 4$

$73.5 - 91 + ? * 1.5 = 237.5$

$? * 1.5 = 237.5 + 17.5$

$? = 255 \div 1.5$

$? = 170$

31. Answer: B

Volume of the cone = $\frac{1}{3} * \frac{22}{7} * 7 * 7 * 12 = 616 \text{ m}^3$

Length of the cuboid = 12 m

Volume of the cuboid = $616 - 40 = 576 \text{ m}^3$

Let the breadth of the cuboid be $x \text{ m}$ and the height of the cuboid be $(x - 2) \text{ m}$.

$12 * x * (x - 2) = 576$

$x^2 - 2x - 48 = 0$

$x^2 - 8x + 6x - 48 = 0$

$x(x - 8) + 2(x - 8) = 0$

$x = -2, 8$ (negative values are neglected)

Therefore, the breadth of the cuboid = 8 m

32. Answer: D

The ratio of the profit share of Valar, Malar and

Priya = $8000 * 12 : x * 12 : (x - 1000) * 6$

= $16000:2x:(x-1000)$

ACQ,

$$16000/(x - 1000) = 100/62.5$$

$$16000/(x - 1000) = 8/5$$

$$x - 1000 = 16000 * 5/8$$

$$x = 10000 + 1000$$

$$x = 11000$$

The investment of Priya = 11000 – 1000 =

Rs.10000

33. Answer: C

Speed of Train A = $400/36 * 18/5 = 40$ km/hr

The distance covered by Train A in $5/2$ hours

$$(9.30\text{am} - 7.00\text{ am}) = 40 * 5/2 = 100\text{ km}$$

Both trains meet after 100 km i.e both trains meet between 800 km.

Both Trains meet after 9.30 am and they meet after 8 hours.

Let the speed of Train B be x km/hr.

ACQ,

$$800/(40 + x) = 8$$

$$x = 60\text{ km/hr}$$

Therefore, the speed of Train B = 60 km/hr

34. Answer: B

ACQ,

$$x * (1 + 40/100)^4 - x = 35520$$

$$x * (140/100)^4 - x = 35520$$

$$x * 2401/625 - x = 35520$$

$$(2401x - 625x)/625 = 35520$$

$$1776x = 35520 * 625$$

$$x = \text{Rs.}12500$$

Interest received by B = 12500 + 4300 =

Rs.16800

Let the amount invested by B be Rs. y

$$y * 35 * 6/100 = 16800$$

$$y = \text{Rs.}8000$$

Therefore, the amount invested by B = Rs.8000

35. Answer: D

Total number of balls in the bag = 6 + 4 + 8 = 18

$$\text{Required probability} = 4C_2/18C_2 = 4 * 3/(18 * 17) = 2/51$$

36. Answer: A

Let the marked price of the purse = $100x$,

Then, the marked price of the watch = $175x$.

Cost price of the purse = $100x - 500$

$$100x * 80/100 = 100x - 500 + 100$$

$$80x = 100x - 400$$

$$20x = 400$$

$$x = 20$$

Marked price of the watch = $175 * 20 = \text{Rs.}3500$

Selling price of the watch = $3500 * 70/100 =$

Rs.2450

Therefore, the cost price of the watch = $2450 * 100/98 = \text{Rs.}2500$

37. Answer: B

Let the speed of the boat in still water be B km/hr

and the speed of the current be C km/hr.

$$C = x$$

$$B + C + B - C = 9x$$

$$2B = 9x$$

$$B = 4.5x$$

ACQ,

$$(4.5x - x) * 10 - (4.5x + x) * 5 = 30$$

$$3.5x * 10 - 5.5x * 5 = 30$$

$$35x - 27.5x = 30$$

$$7.5x = 30$$

$$x = 4$$

$$B = 4.5 * 4 = 18 \text{ km/hr}$$

Therefore, the speed of the boat in still water = 18 km/hr

38. Answer: C

$$2x^2 - 27x + 90 = 0$$

$$2x^2 - 12x - 15x + 90 = 0$$

$$2x(x - 6) - 15(x - 6) = 0$$

$$x = + 6, + 15/2$$

$$x = + 6, + 7.5$$

$$y^2 - 3y - 54 = 0$$

$$y^2 - 9y + 6y - 54 = 0$$

$$y(y - 9) + 6(y - 9) = 0$$

$$y = + 9, - 6$$

Therefore, the relationship can't be determined.

39. Answer: A

$$x^2 - 2x - 63 = 0$$

$$x^2 - 9y + 7x - 63 = 0$$

$$x(x - 9) + 7(x - 9) = 0$$

$$x = + 9, - 7$$

$$y^2 + 30y + 189 = 0$$

$$y^2 + 21y + 9y + 189 = 0$$

$$y(y + 21) + 9(y + 21) = 0$$

$$y = - 21, - 9$$

Hence, $x > y$

40. Answer: C

$$3x^2 + 14x + 15 = 0$$

$$3x^2 + 9x + 5x + 15 = 0$$

$$3x(x + 3) + 5(x + 3) = 0$$

$$x = - 3, - 5/3$$

$$x = - 3, -1.67$$

$$4y^2 + 19y + 22 = 0$$

$$4y^2 + 8y + 11y + 22 = 0$$

$$4y(y + 2) + 11(y + 2) = 0$$

$$y = - 2, - 11/4$$

$$y = - 2, - 2.75$$

Therefore, the relationship can't be determined.

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Prelims Scoring Part

- **Why should we focus more on simplification, approximation questions rather than Data Interpretation and Caselet?**

Seating arrangement and puzzles are the time-consuming topics. One should take **less time** to solve the miscellaneous questions. So that we can get some more time to solve Data Interpretation and Caselet accurately. This is possible only if we frequently practice the simplification, approximation questions. In our **prelims Scoring part**, You can practice a wide range of miscellaneous topics for your **speed improvement**.

Sample Questions for Prelims Scoring Part

Directions (1-10): What value should come in the place of (?) in the following questions?

1. $20\% \text{ of } 1200 - 5 * 3^2 = ?^2 - 30$

- A. 5
- B. 10
- C. 15
- D. 20
- E. None of these

2. $20\% \text{ of } 400 + ?\% \text{ of } 280 = 150$

- A. 30
- B. 35
- C. 20
- D. 25
- E. 40

3. $55\% \text{ of } 220 + 15 * 35 - \sqrt{841} * 8 = ?$

- A. 441
- B. 391
- C. 461
- D. 414
- E. 481

4. $16\% \text{ of } 450 * ?\% \text{ of } 880 = 6336$

- A. 6
- B. 15
- C. 10
- D. 8
- E. 5

5. $24\% \text{ of } 75\% \text{ of } 200 + 26\% \text{ of } 600 = ?$

- A. 141
- B. 151
- C. 192
- D. 221
- E. 131

6. $\sqrt{1764} * \sqrt{676} \div 13 + \sqrt{2209} * 3 = ?^2$

- A. 13
- B. 15
- C. 17
- D. 9
- E. 11

7. $(22\% \text{ of } 1000 - 20) * ? - 45\% \text{ of } 5500 = 125$

- A. 19

- B. 16
- C. 17
- D. 13
- E. 12

8. $7(1/2)$ of 22 + 16% of 800 + $34 \times 5 = ?$

- A. 473
- B. 486
- C. 463
- D. 468
- E. 472

9. 125% of 900 – 28% of 1250 = 5 * ?

- A. 111
- B. 155
- C. 125
- D. 144
- E. 148

10. $150 \times \sqrt{36} - \sqrt{841} \times 12 - 240 = ? + \sqrt{4624}$

- A. 244
- B. 220
- C. 250
- D. 265
- E. 271

Directions (11-20): What approximate value should come in the place of (?) in the following questions.

11. $18.18 \times 4.99 + 12.15 \times 3.99 - 117.99 = ?$

- A. 20
- B. 25
- C. 30

- D. 40
- E. 35

12. $(24.12\% \text{ of } 825.32) \div 22.01 + 24.34 = ?$

- A. 20
- B. 33
- C. 48
- D. 52
- E. 62

13. $44.95\% \text{ of } 499.98 - 60.08\% \text{ of } 119.91 = ?$

- A. 184
- B. 153
- C. 216
- D. 198
- E. 280

14. $149.90\% \text{ of } 999.99 + 8.92 \times 239.921 = ? \times \sqrt{17}$

- A. 915
- B. 965
- C. 845
- D. 855
- E. 925

15. $40.14\% \text{ of } 350.06 + 60.02\% \text{ of } 50.07 = ?$

- A. 170
- B. 125
- C. 210
- D. 175
- E. 213

16. $\sqrt{485} + \sqrt{1155} - 21.19 * 2.891 + \sqrt{675} * 1.906$

= ?

- A. 39
- B. 45
- C. 50
- D. 54
- E. 60

17. $23.36+598.456+199.87+798.56 =?$

- A. 1534
- B. 1620
- C. 1476
- D. 1983
- E. 2148

18. $23.36+598.456+199.87+798.56 =?$

- A. 1305
- B. 1620
- C. 1542
- D. 1215
- E. 1758

19. $?^2 * 26.99 + 124.91\% \text{ of } 88 = 568.87$

- A. 3
- B. 4
- C. 2
- D. 6
- E. 8

20. $31.15 * 25.09 - 38.23/10.05=? * 4.97$

- A. 132
- B. 164
- C. 122

D. 144

E. 154

Directions (21-30): What value should come in the place of (?) in the following number series?

21. 5, 8, 14, 26, 50, ?

- A. 79
- B. 89
- C. 98
- D. 68
- E. 72

22. 8, 9, 20, 63, 256, ?

- A. 1275
- B. 1280
- C. 1285
- D. 1290
- E. 1295

23. 288, 254, 222, ?, 164, 138

- A. 192
- B. 180
- C. 186
- D. 174
- E. 162

24. 22, 47, ?, 132, 196, 277

- A. 70
- B. 64
- C. 83
- D. 81
- E. 95

25. 83, 88, 99, 117, 143, ?

- A. 186
- B. 156
- C. 178
- D. 134
- E. 141

26. 68, 80, 94, 110, 128, ?

- A. 148
- B. 130
- C. 142
- D. 126
- E. 150

27. 12, 30, 72, ?, 306, 552

- A. 156
- B. 148
- C. 136
- D. 159
- E. 162

28. 16, ?, 12, 30, 105, 472.5

- A. 9
- B. 12
- C. 6
- D. 8
- E. 10

29. 627, 544, 403, 330, 203, ?

- A. 180
- B. 140
- C. 160
- D. 150

E. 130

30. 3, 9, 27, ?, 243, 729

- A. 99
- B. 77
- C. 81
- D. 94
- E. 83

Directions (31-40): Find out the wrong number in the following number series.

31. 12, 88, 162, 234, 308, 372

- A. 308
- B. 372
- C. 88
- D. 234
- E. 162

32. 4, 16, 52, 160, 486, 1456

- A. 4
- B. 16
- C. 52
- D. 1456
- E. 486

33. 189, 262, 333, 430, 461, 520

- A. 430
- B. 333
- C. 262
- D. 520
- E. 189

34. 455, 459, 469, 490, 579, 823

- A. 579
- B. 469
- C. 490
- D. 823
- E. 459

35. 7, 28, 42, 53, 59, 62

- A. 42
- B. 59
- C. 62
- D. 53
- E. None of these

36. 56, 75, 52, 79, 50, 83, 44

- A. 75
- B. 79
- C. 83
- D. 50
- E. None of these

37. 89, 199, 313, 428, 545, 664

- A. 313
- B. 199
- C. 545
- D. 664
- E. None of these

38. 5, 17, 43, 87, 161, 265

- A. 43
- B. 161
- C. 87
- D. 265
- E. None of these

39. 11, 4, 6, 25, 172, 1536

- A. 25
- B. 1536
- C. 4
- D. 172
- E. 6

40. 7, 15, 80, 295, 807, 1807

- A. 7
- B. 15
- C. 80
- D. 295
- E. 807

Directions (41-50): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give answer as,

41

I). $x^2 + 17x + 66 = 0$

II). $y^2 - y - 110 = 0$

- A. $x > y$
- B. $x \geq y$
- C. $x = y$ or relationship can't be determined.
- D. $x < y$
- E. $x \leq y$

42.

I). $x^2 + 6x - 40 = 0$

II). $y^2 - 14y + 45 = 0$

- A. $x > y$
- B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

43.

I). $x^2 - 14x + 49 = 0$

II). $y^2 - 13y + 42 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

44.

I). $x^2 + 17x - 60 = 0$

II). $y^2 - 8y + 15 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

45.

I). $x^2 - 20x + 96 = 0$

II). $y^2 - 30y + 224 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

46.

I). $x^2 + 5x - 176 = 0$

II). $y^2 - 9y - 162 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

47.

I). $x^2 - 23x + 22 = 0$

II). $y^2 + 19y - 66 = 0$

A. $x > y$

B. $x \geq y$

C. $x < y$

D. $x \leq y$

E. $x = y$ or the relation cannot be established.

48.

I). $x^2 + 11x + 24 = 0$

II). $y^2 + 13y + 40 = 0$

A. $x > y$

B. $x \geq y$

C. $x < y$

D. $x \leq y$

E. $x = y$ or the relation cannot be established.

49.

I). $x^2 - 10x + 24 = 0$

II). $y^2 - 15y + 54 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

50.

I). $x^2 - 10x + 25 = 0$

II). $y^2 + 5y - 50 = 0$

A. $x > y$

B. $x \geq y$

C. $x = y$ or relationship can't be determined.

D. $x < y$

E. $x \leq y$

Sample Questions for Prelims Scoring Part

1. Answer: C

$20\% \text{ of } 1200 - 5 * 3^2 = ?^2 - 30$

$\Rightarrow 240 - 45 = ?^2 - 30$

$\Rightarrow 195 + 30 = ?^2$

$\Rightarrow 225 = ?^2$

$\Rightarrow 15$

2. Answer: D

$20\% \text{ of } 400 + ?\% \text{ of } 280 = 150$

$80 + ? \% \text{ of } 280 = 150$

$? = 25$

3. Answer: D

$55\% \text{ of } 220 + 15 * 35 - \sqrt{841} * 8 = ?$

$121 + 525 - 232 = ?$

$? = 414$

4. Answer: C

$0.16 * 450 * ? * 880/100 = 6336$

$633.6 * ? = 6336$

$? = 10$

5. Answer: C

$24\% \text{ of } 75\% \text{ of } 200 + 26\% \text{ of } 600 = ?$

$36 + 156 = ?$

$? = 192$

6. Answer: B

$\sqrt{1764} * \sqrt{676} \div 13 + \sqrt{2209} * 3 = ?^2$

$42 * 26/13 + 141 = ?^2$

$? = 15$

7. Answer: D

$(22\% \text{ of } 1000 - 20) * ? - 45\% \text{ of } 5500 = 125$

$\{[(22/100)*1000] - 20\} * ? - (45/100)*5500 = 125$

$? = 2600/200$

$? = 13$

8. Answer: C

$7(1/2) \text{ of } 22 + 16\% \text{ of } 800 + 34*5 = ?$

$(15/2)*22 + (16/100 * 800) + 170 = ?$

$? = (15*11) + (128) + 170$

$? = 463$

9. Answer: B

$125\% \text{ of } 900 - 28\% \text{ of } 1250 = 5 * ?$

$1125 - 350 = 5 * ?$

$155 = ?$

10. Answer: A

$$900 - 348 - 240 = ? + 68$$

$$? = 244$$

11. Answer: A

$$18.18 * 4.99 + 12.15 * 3.99 - 117.99 = ?$$

$$90 + 48 - 118 = ?$$

$$? = 20$$

12. Answer: B

$$(24.12\% \text{ of } 825.32) \div 22.01 + 24.34 = ?$$

$$\Rightarrow (24\% \text{ of } 825) \div 22 + 24 = ?$$

$$\Rightarrow 9 + 24 \Rightarrow 33$$

13. Answer: B

$$44.95\% \text{ of } 499.98 - 60.08\% \text{ of } 119.91 = ?$$

$$? = 225 - 72$$

$$? = 153$$

14. Answer: A

$$149.90\% \text{ of } 999.99 + 8.92 * 239.921 = ? * \sqrt{17}$$

$$150\% \text{ of } 1000 + 9 * 240 = ? * \sqrt{16}$$

$$1500 + 2160 = ? * 4$$

$$? = 915$$

15. Answer: A

$$40.14\% \text{ of } 350.06 + 60.02\% \text{ of } 50.07 = ?$$

$$(40/100)*350 + (60/100)*50 = ?$$

$$140+30 = ?$$

$$? = 170$$

16. Answer: B

$$\sqrt{485} + \sqrt{1155} - 21.19 * 2.891 + \sqrt{675} * 1.906 = ?$$

$$\sqrt{484} + \sqrt{1156} - 21 * 3 + \sqrt{676} * 2 = ?$$

$$22 + 34 - 63 + 52 = ?$$

$$45 = ?$$

17. Answer: B

$$23.36+598.456+199.87+798.56 = ?$$

$$23 + 598 + 200 + 799 = ?$$

$$1620 = ?$$

18. Answer: B

$$23.36+598.456+199.87+798.56 = ?$$

$$23 + 598 + 200 + 799 = ?$$

$$1620 = ?$$

19. Answer: B

$$?^2 * 26.99 + 124.91\% \text{ of } 88 = 568.87$$

$$?^2 * 27 + 110 = 569$$

$$?^2 * 27 = 459$$

$$? = 4$$

20. Answer: E

$$? * 5 = 31 * 25 - 38/10$$

$$? = (775 - 3.8)/5 = 771.2/5 = 154$$

21. Answer: C

$$5 * 2 - 2 = 8$$

$$8 * 2 - 2 = 14$$

$$14 * 2 - 2 = 26$$

$$26 * 2 - 2 = 50$$

$$50 * 2 - 2 = 98$$

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22. Answer: C

$$8 * 1 + 1 = 9$$

$$9 * 2 + 2 = 20$$

$$20 * 3 + 3 = 63$$

$$63 * 4 + 4 = 256$$

$$256 * 5 + 5 = 1285$$

23. Answer: A

$$17^2 - 1 = 288$$

$$16^2 - 2 = 254$$

$$15^2 - 3 = 222$$

$$14^2 - 4 = 192$$

$$13^2 - 5 = 164$$

$$12^2 - 6 = 138$$

24. Answer: C

$$22 + 5^2 = 47$$

$$47 + 6^2 = 83$$

$$83 + 7^2 = 132$$

$$132 + 8^2 = 196$$

$$196 + 9^2 = 277$$

25. Answer: C

$$83 + 5 = 88$$

$$88 + (5+6) = 99$$

$$99 + (5+6+7) = 117$$

$$117 + (5+6+7+8) = 143$$

$$143 + (5+6+7+8+9) = 178$$

26. Answer: A

$$68 + 12 = 80$$

$$80 + 14 = 94$$

$$94 + 16 = 110$$

$$110 + 18 = 128$$

$$128 + 20 = 148$$

27. Answer: A

$$12 + 2^3 + 10 = 30$$

$$30 + 3^3 + 15 = 72$$

$$72 + 4^3 + 20 = 156$$

$$156 + 5^3 + 25 = 306$$

$$306 + 6^3 + 30 = 552$$

28. Answer: D

$$16 * 0.5 = 8$$

$$8 * 1.5 = 12$$

$$12 * 2.5 = 30$$

$$30 * 3.5 = 105$$

$$105 * 4.5 = 472.5$$

29. Answer: B

$$33 * 19 = 627$$

$$32 * 17 = 544$$

$$31 * 13 = 403$$

$$30 * 11 = 330$$

$$29 * 7 = 203$$

$$28 * 5 = 140$$

30. Answer: C

$$3 + (3 * 2) = 9$$

$$9 + (9 * 2) = 27$$

$$27 + (27 * 2) = 81$$

$$81 + (81 * 2) = 243$$

$$243 + (243 * 2) = 729$$

31. Answer: A

$12 + 76 = 88$

$88 + 74 = 162$

$162 + 72 = 234$

$234 + 70 = 304$

$304 + 68 = 372$

32. Answer: E

$4 \times 3 + 4 = 16$

$16 \times 3 + 4 = 52$

$52 \times 3 + 4 = 160$

$160 \times 3 + 4 = 484$

$484 \times 3 + 4 = 1456$

33. Answer: A

$189 + 73 = 262$

$262 + 71 = 333$

$333 + 67 = 400$

$400 + 61 = 461$

$461 + 59 = 520$

34. Answer: C

$455 + (3^1 + 1) = 459$

$459 + (3^2 + 1) = 469$

$469 + (3^3 + 1) = 497$

$497 + (3^4 + 1) = 579$

$579 + (3^5 + 1) = 823$

35. Answer: A

$7 + (3.5 \times 6) = 28$

$28 + (3 \times 5) = 43$

$43 + (2.5 \times 4) = 53$

$53 + (2 \times 3) = 59$

$59 + (1.5 \times 2) = 62$

36. Answer: D

$56 + 19 = 75$

$75 - 23 = 52$

$52 + 27 = 79$

$79 - 31 = 48$

$48 + 35 = 83$

$83 - 39 = 44$

37. Answer: B

$89 + 111 = 200$

$200 + 113 = 313$

$313 + 115 = 428$

$428 + 117 = 545$

$545 + 119 = 664$

38. Answer: C

$1^3 + 2^2 = 5$

$2^3 + 3^2 = 17$

$3^3 + 4^2 = 43$

$4^3 + 5^2 = 89$

$5^3 + 6^2 = 161$

$6^3 + 7^2 = 265$

39. Answer: D

$11 * 1 - 7 = 4$

$4 * 3 - 6 = 6$

$6 * 5 - 5 = 25$

$25 * 7 - 4 = 171$

$171 * 9 - 3 = 1536$

40. Answer: C

$7 + 2^3 = 15$

$15 + 4^3 = 79$

$$79 + 6^3 = 295$$

$$295 + 8^3 = 807$$

$$807 + 10^3 = 1807$$

41. Answer: C

$$x^2 + 17x + 66 = 0$$

$$x^2 + 11x + 6x + 66 = 0$$

$$x(x + 11) + 6(x + 11) = 0$$

$$(x + 11)(x + 6) = 0$$

$$X = -6, -11$$

$$y^2 - y - 110 = 0$$

$$y^2 - 11y + 10y - 110 = 0$$

$$y(y - 11) + 10(y - 11) = 0$$

$$(y + 10)(y - 11) = 0$$

$$y = -10, 11$$

Relationship between x and y cannot be established.

42. Answer: D

$$x^2 + 6x - 40 = 0$$

$$x^2 - 4x + 10x - 40 = 0$$

$$x(x - 4) + 10(x - 4) = 0$$

$$(x + 10)(x - 4) = 0$$

$$x = 4, -10$$

$$y^2 - 14y + 45 = 0$$

$$y^2 - 9y - 5y + 45 = 0$$

$$y(y - 9) - 5(y - 9) = 0$$

$$(y - 9)(y - 5) = 0$$

$$y = 9, 5$$

$$x < y$$

43. Answer: B

$$x^2 - 14x + 49 = 0$$

$$x^2 - 7x - 7x + 49 = 0$$

$$x(x - 7) - 7(x - 7) = 0$$

$$(x - 7)(x - 7) = 0$$

$$x = 7, 7$$

$$y^2 - 13y + 42 = 0$$

$$y^2 - 6y - 7y + 42 = 0$$

$$y(y - 6) - 7(y - 6) = 0$$

$$(y - 6)(y - 7) = 0$$

$$y = 6, 7$$

$$x \geq y$$

44. Answer: E

$$x^2 + 17x - 60 = 0$$

$$x^2 + 20x - 3x - 60 = 0$$

$$x(x + 20) - 3(x + 20) = 0$$

$$(x - 3)(x + 20) = 0$$

$$x = 3, -20$$

$$y^2 - 8y + 15 = 0$$

$$y^2 - 5y - 3y + 15 = 0$$

$$y(y - 5) - 3(y - 5) = 0$$

$$(y - 3)(y - 5) = 0$$

$$y = 3, 5$$

$$x \leq y$$

45. Answer: A

$$x^2 - 20x + 96 = 0$$

$$x^2 - 12x - 8x + 96 = 0$$

$$x(x - 12) - 8(x - 12) = 0$$

$$(x - 8)(x - 12) = 0$$

$$x = 8, 12$$

$$y^2 - 30y + 224 = 0$$

$$y^2 - 30y + 224 = 0$$

$$y^2 - 16y - 14y + 224 = 0$$

$$(y-16)(y-14)=0$$

$$y=16,14$$

$$x < y$$

46. Answer: C

$$x^2+5x-176=0$$

$$x^2+16x-11x-176=0$$

$$x(x+16)-11(x+16)=0$$

$$(x+16)(x-11)=0$$

$$x=-16,11$$

$$y^2-9y-162=0$$

$$y^2-18y+9y-162=0$$

$$y(y-18)+9(y-18)=0$$

$$(y-18)(y+9)=0$$

$$y=18,-9$$

Relationship between x and y cannot be established

47. Answer: E

$$x^2 - 23x + 22=0$$

$$x^2 - 22x - x + 22=0$$

$$x(x - 22) - 1(x - 22)=0$$

$$(x - 1)(x - 22)=0$$

$$x=1, 22$$

$$y^2 + 19y - 66=0$$

$$y^2 + 22y - 3y - 66=0$$

$$y(y + 22) - 3(y + 22)=0$$

$$(y - 3)(y + 22)=0$$

$$y=3, -22$$

Relationship cannot be established between x and y.

48. Answer: E

$$x^2 + 11x + 24=0$$

$$x^2 + 8x + 3x + 24=0$$

$$x(x + 8) + 3(x + 8)=0$$

$$(x + 3)(x + 8)=0$$

$$x=-3, -8$$

$$y^2 + 13y + 40=0$$

$$y^2 + 8y + 5y + 40=0$$

$$y(y + 8) + 5(y + 8)=0$$

$$(y + 5)(y + 8)=0$$

$$y=-5, -8$$

Relationship between x and y cannot be established.

49. Answer: E

$$x^2-10x+24=0$$

$$x^2-6x-4x+24=0$$

$$x(x-6)-4(x-6)=0$$

$$x=6,4$$

$$y^2-6y-9y+54=0$$

$$y(y-6)-9(y-6)=0$$

$$y=6,9$$

Hence, $x \leq y$

50. Answer: B

$$x^2 - 10x + 25 = 0$$

$$x^2 - 5x - 5x + 25 = 0$$

$$x(x - 5) - 5(x - 5) = 0$$

$$(x - 5)(x - 5) = 0$$

$$x = 5, 5$$

$$y^2 + 5y - 50 = 0$$

$$y^2 + 10y - 5y - 50 = 0$$

$$y(y + 10) - 5(y + 10) = 0$$

$$(y - 5)(y + 10) = 0$$

$$y = 5, -10$$

$$x \geq y$$

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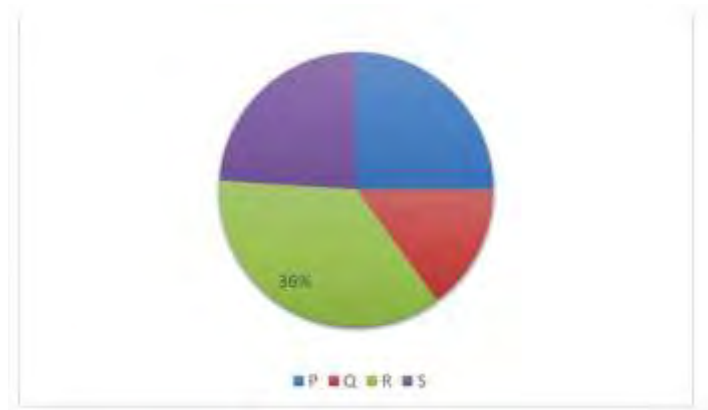
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Sample Questions For Mains Booster

Directions (1-4): Read the following information carefully and answer the questions based on it.

The chart given below shows the % distribution of the number of ordered books on two e-commerce websites – E bay and Mynta on a particular day from four different cities – P, Q, R, and S.



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City	Respective ratio of order booked on Ebay to Myntra
P	2: Z
Q	1: 2
R	5:3
S	3: Z

Note:

- a) Order booked from city R is 50% more than from city S, while the order booked from city P is 200.
- b) (Order booked from city R – 60% x order booked from city P) = 1.4 x of order booked from city Q.
- c) Orders booked on Ebay from city Q are less than that of city P.
- d) $Z = Y + 1$, Where Y is a prime number and Z is composite number

1) For City P, number of orders booked on flipkart is 1.5 times that on Ebay, and the total number of orders booked on Ebay, flipkart and Myntra are $(K + 200)$.

Find which of the following statements is/are definitely true.

- I. Z and K are co primes
- II. K is five less than the number of orders booked on Myntra from city Q.
- III. On dividing $(K - Z)$ by 7 remainder is 6
- A. Only II is true
- B. Only I and II are true
- C. Only III and II are true
- D. All I, II, and III are true

E. None of these

2) For S, the number of orders delivered on Ebay is thrice as that of non-delivered, while the number of orders delivered on Myntra is seven times as that of non-delivered. Find total number of non-delivered orders in city S.

Number of delivered orders = Number of orders booked – Number of orders not delivered.

- A.48
- B.32
- C.64
- D.40
- E.Can't be determined

3) Find the central angle that corresponds to the number of orders booked from city Q.

- A.54
- B.90
- C.36
- D.72
- E.None of these

4) For city T, total number of orders booked is 10 more than number of orders booked on Myntra from city P, while number of orders booked in Ebay is average of number of orders booked on Myntra from city R and S together, then find number of orders booked on Myntra in city T.

- A.62
- B.32
- C.52
- D.42

E. None of these

Directions (5-9): Read the following information carefully and answer the questions based on it.

The data given depicts total people who visited blood banks, A, B, C, D, E and F for blood donation in one week time.

Blood banks	People with O +ve blood group	People with O -ve blood group	Total people visited in blood bank
A	-	200	-
B	3:7	$15x + 4y$	-
C	$25x + 20y$	37.5%	320
D	-	$(200/11)\%$	220
E	60%	160	-
F	80	15:19	-

Note: Both 'x' and 'y' are distinct natural numbers less than 12.

Total people visited = (People with O +ve blood group) + (People with O -ve blood group)

Total people who visited all the blood banks within the week are, 1800.

Total people with O +ve blood group in B: total people visited in blood bank B = 3:7

Total people with O -ve blood group in F: total people visited in blood bank F = 15:19

5) Number of people visited with O –ve blood group in blood banks A and B together are what percent of number of people visited with O +ve blood group in blood banks A, C and F together?

A.37.5%

B.25%

C.66.66%

D.23.5%

E. None of these

6) Find the average number of people visited with O –ve blood group in blood banks B, C, D and E together.

A.95

B.100

C.85

D.80

E. None of these

7) Find the ratio of total number of people visited with O +ve blood group in all the blood banks together and total number of people visited with O –ve blood group in all the blood banks together.

A.1:3

B.5:2

C.7:2

D.1:2

E. None of these

8) Find the ratio of total number of people who visited blood banks A and B to those who visited blood banks C and E.

A.2:9

B.7:3

C.1:3

D.2:3

E. None of these

9) Compute the difference between the number of people with O +ve blood group in blood banks B, C and D together to that of blood banks A, E and F together.

- A.10
- B.30
- C.14
- D.15
- E.None of these

10) If M is a composite number less than 14 and sum of factors of M is an even 5) Find the value of $(2P + 3Q + R)$, where P, Q, and R are non – negative integers and $P > Q$.

Statement I. $Q^2 + P^2 = 13$

Statement II. $(P - 1) \times (R - 8) = - 16$

Statement III. $P^2 + Q^2 + 13 + R^2 = 6P + 4Q$.

- A. Any two statements together are sufficient to answer the question.
- B. Statement I and II together is sufficient to answer the question.
- C. statement I and III together is sufficient to answer the question.
- D. Either statement III alone or statement I and II together is sufficient to answer the question
- E. All statement together is not sufficient to answer the question.

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Answer Key with Explanation

Directions (1-4):

Let total orders booked from all cities together = 100a

Orders booked from R = $36\% \times 100a = 36a$

Ordered booked from S = $36a/1.5 \times 100 = 24a$

Orders booked from city P = 200

so, $(36a - 60\% \times 200) = 1.4 \times$ order booked from city Q

$5/7 \times (36a - 120) =$ ordered booked from city Q

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$$5/7 \times (36a - 120) + 200 = 100a - 36a - 24a = 40a$$

$$36a - 120 + 280 = 56a$$

$$20a = 160$$

$$\text{Value of } a = 8$$

$$\text{So, total number of orders booked} = 800$$

$$\text{Orders booked from city P} = 200$$

$$\begin{aligned} \text{Orders booked from city Q} &= 5/7 \times (36 \times 8 - 120) \\ &= 120 \end{aligned}$$

$$\text{Orders booked from city R} = 36 \times 8 = 288$$

$$\text{Orders booked from city S} = 288 \times 2/3 = 192$$

Now,

Orders booked on Ebay from city Q are less than that of city P.

$$\begin{aligned} \text{Number of orders booked on E bay from city Q} &= \\ 1/3 \times 120 &= 40 \end{aligned}$$

So, number of orders booked on E bay from city P > 40

If $Y = 2, Z = 3$ (not possible, because Z is composite number)

$$\text{If } Y = 3, Z = 4$$

So, ratio of orders booked on E bay and Myntra from city P = $2:4 = 1:2$

$$\begin{aligned} \text{So, number of orders booked on E bay from city P} &= 1/3 \times 200 = 66.66 \text{ (not possible)} \end{aligned}$$

$$\text{If } Y = 5, Z = 6$$

So, ratio of orders booked on E bay and Myntra from city P = $2:6 = 1:3$

$$\begin{aligned} \text{So, number of orders booked on E bay from city P} &= 1/4 \times 200 = 50 \text{ (possible)} \end{aligned}$$

Next possible values of $Z = 8,$

$$\begin{aligned} \text{So, number of ordered booked on E bay from city P} &= 2/10 \times 200 = 40 \text{ (not possible)} \end{aligned}$$

So, we further increase the value of Z, share of E bay orders from city P will be less than 40, which is not possible.

Now, we can calculate all the possible values

City	Total orders booked	Orders booked on E bay	Orders booked on Myntra
P	200	50	150
Q	120	40	80
R	288	180	108
S	192	64	128
Total	800	334	466

1) Answer: C

According to question,

For city P

$$\begin{aligned} \text{Number of orders booked on flip kart} &= 50 \times 1.5 = \\ 75 \end{aligned}$$

$$\begin{aligned} \text{So, number of orders booked on (E bay + Flipkart} \\ \text{+ Myntra)} &= (K + 200) \end{aligned}$$

$$200 + 75 = K + 200$$

$$\text{So, value of } K = 75$$

I. Z and K are co primes

$$\text{Value of } K = 75$$

$$\text{Value of } Z = 6$$

$$\text{HCF of } (Z, K) = 3$$

This statement is false

II. K is five less than number of orders booked on Myntra from city Q.

$$\begin{aligned} \text{Number of orders booked on Myntra from city Q} &= \\ 80 \end{aligned}$$

$$\text{Value of } K = 75$$

$$\text{Required difference} = 80 - 75 = 5$$

III. On dividing $(K - Z)$ by 7 remainder is 6

$$(75 - 6)/7 = 69/7 = 7 \times 9 + 6$$

This statement is true

So, II and III are true

Hence answer is option C

2) Answer: B

For S

Total number of orders booked on E bay = 64

Number of orders not delivered on E bay = $64 \times$

$$1/4 = 16$$

Total number of orders booked on Myntra = 128

Number of orders not delivered on Myntra = $128 \times$

$$1/8 = 16$$

Required sum = $16 + 16 = 32$

Hence answer is option B

3) Answer: A

Required central angle = $15\% \times 360 = 54$

Hence answer is option A

4) Answer: D

For city T

Number of orders booked = $150 + 10 = 160$

Number of orders booked on E bay = $(108 +$

$$128)/2 = 118$$

So, number of orders booked on Myntra = $160 -$

$$118 = 42$$

Hence answer is option D

Directions (5-9):

In blood bank F,

Given that,

Total people with O –ve blood group: total people visited = 15:19

Also, Total people visited = (People with O +ve blood group) + (People with O -ve blood group)

$$19k = 80 + 15k$$

People with O +ve blood group = $4k = 80$

Thus, $k = 20$

Hence, People with O -ve blood group = $15k = 300$

Total people visited = 380

In blood bank E,

Given that,

Total people with O –ve blood group = 40%

So, $40\% = 160$

$1\% = 4$

Now, People with O +ve blood group = $60\% = 240$

Total people visited = 400

In blood bank D,

Total people visited = 220

People with O –ve blood group = $(200/1100) * 220 = 40$

Thus, People with O +ve blood group = $220 - 40 = 180$

In blood bank C,

Total people visited = 320

Also, People with O –ve blood group = $(3/8) * 320 = 120$

Thus, People with O +ve blood group = 200

But,

$$25x + 20y = 200$$

$$\text{i.e. } 5x + 4y = 40$$

Given that,

x and y are natural numbers; $x, y < 12$

Now we'll try various values that can fit the equation

For, $x = 1$

$y = 8.75$

For, $x = 2$

$y = 7.5$

For, $x = 3$

$y = 6.25$

For, $x = 4$

$y = 5$

For, $x = 5$

$y = 3.75$

For, $x = 6$

$y = 2.5$

For, $x = 7$

$y = 1.25$

For, $x = 8$

$y = 0$

Thus, beyond $x = 8$, the values of y will occur in –ve

So, we get only one value

If, $x = 4$ and $y = 5$

In blood bank B,

People with O –ve blood group = $15x + 4y = 80$

According to the question,

The total number of people visited with O +ve

blood group in B: total number of people visited in

blood bank B = 3:7

$7k - 3k = 4k \Rightarrow 80$

So, $k = 20$

Thus,

People with O +ve blood group = $3k = 60$

Total people visited = 140

Now,

Total people who visited all the blood banks within the week = 1800

Total people who visited blood bank A = $1800 - (140 + 320 + 220 + 400 + 380) = 340$

People with O –ve blood group who visited blood bank A = 200

People with O +ve blood group who visited blood bank A = 140

Blood banks	People with O +ve blood group	People with O –ve blood group	Total people visited
A	140	200	340
B	60	80	140
C	200	120	320
D	180	40	220
E	240	160	400
F	80	300	380

5) Answer: C

According to the question,

People with O –ve blood group visited in blood bank A = 200

People with O –ve blood group visited in blood bank B = 80

Total people visited with O –ve blood group = 280

People with O +ve blood group visited in blood bank A = 140

People with O +ve blood group visited in blood bank C = 200

People with O +ve blood group visited in blood bank F = 80

Total people visited with O +ve blood group = 420

% difference = $(280/420) \times 100 = (200/3)\%$

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= 66.66%

Hence, answer is option C

6) Answer: B

According to the question,

People with O –ve blood group visited in blood bank B = 80

People with O –ve blood group visited in blood bank C = 120

People with O –ve blood group visited in blood bank D = 40

People with O –ve blood group visited in blood bank E = 160

Average = $400/4 = 100$

Hence, answer is option B

7) Answer: E

According to the question,

Total number of people visited with O +ve blood group in all the blood banks together = 900

Total number of people visited with O -ve blood group in all the blood banks together = 900

Required ratio = 1:1

Hence, answer is option E

8) Answer: D

According to the question,

Total number of people who visited blood banks A and B = 480

Total number of people who visited blood banks C and E = 720

Required ratio = 2:3

Hence, answer is option D

9) Answer: E

According to the question,

People with O +ve blood group in blood bank B = 60

People with O +ve blood group in blood bank C = 200

People with O +ve blood group in blood bank D = 180

People with O +ve blood group in blood bank A = 140

People with O +ve blood group in blood bank E = 240

People with O +ve blood group in blood bank F = 80

Required difference = $460 - 440 = 20$

Hence, answer is option E

10) Answer: D

From I,

$$Q^2 + P^2 = 13$$

Only possible integer value of P and Q is 3 and 2 respectively

From this statement we are able to find the value of P and Q only not R. so this statement alone is not sufficient to answer the question.

From II,

From this statement we are able to find the value of P and R only not Q. so this statement alone is not sufficient to answer the question.

From III,

$$P^2 + Q^2 + 13 + R^2 = 6P + 4Q$$

$$(P - 3)^2 + (Q - 2)^2 + R^2 = 0$$

So, $P = 3$, $Q = 2$, and $R = 0$

This statement alone is sufficient to answer the question.

On combining (I + II),

$P = 3$, $Q = 2$

So, $(3 - 1) \times (R - 8) = -16$

$R - 8 = -8$

So, $R = 0$

So, this combination is sufficient to answer the question.

Hence, answer is option D

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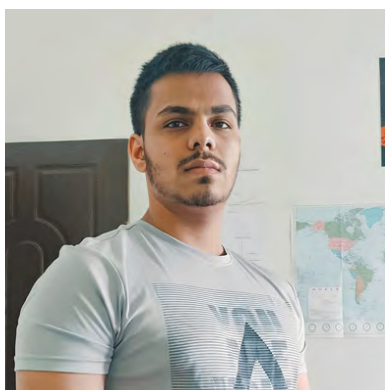


Contents

S.No.	Details	Page No.
1	Why Guidely?	3
2	Exam Analysis (Question Weightage)	4
3	Beginners quiz	6
4	Topic wise Bundle Course	17
5	Exam Wise Bundle PDF Course	29
6	Memory Based Bundle PDF Course	72
7	Prelims Scoring part	103
8	Mains Booster	109

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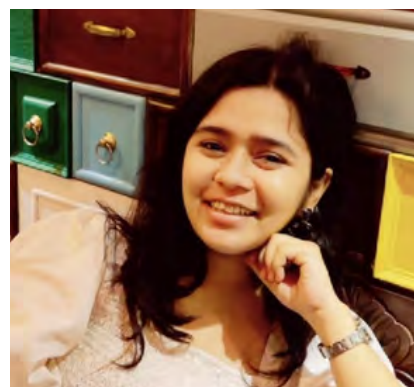
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MR. ADITYA VERMA, UP
IBPS CLERK/ PO 2022

The bundle pdf course is very helpful for every aspirant targeting the mains exam of ibps and sbi, the daily targets of bundle pdf in mock forms gives the idea to candidate where he is lacking.



MS. KHUSHBOO VERMA, UP
IBPS PO 2022

I am preparing from last 4 years and this time i cleared IBPS PO and special thanks to guidely 's bundle pdf, mocks and ga quiz . Thankyou soo much

Exam Analysis (Question Weightage)

All Mains Exams-English-2022

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Reading Comprehension	8+8	10	4+7	7+7	7+5	6+6
Cloze test	8	6	5	-	5	-
Para Jumble	-	6	-	-	-	-
Match the column	3	-	4	4	5	-
Connecters	-	-	-	3	-	-
Single fillers	3	-	4	-	-	5
Double Fillers	-	-	-	4	2	-
Phrasal replacement	3	6	-	4	6	4
Word Swapping	-	-	3	-	-	4
Sentence Rearrangement	-	5	5	5	-	5
Misspelt/ Inappropriate	-	3	-	-	-	-
Error Spotting	3	4	3	6	5	5
Word usage	-	-	-	-	-	5
New type	-	-	-	-	-	-
Total	40	40	35	40	35	40

Exam Analysis (Question Weightage)

All Mains Exams-English-2021

Topics/Exams	RRB PO	RRB Clerk	IBPS PO	IBPS Clerk	SBI PO	SBI Clerk
Reading Comprehension	7	7	6+5	6+7	6+5	5+5
Cloze test	-	-	6	7	5	-
Para Jumble	6	5	-	5	5	5
Match the column	5	-	-	2	4	-
Connecters	-	4	-	3	-	4
Single fillers	-	5	3	-	-	3
Double Fillers	5	-	-	2	-	-
Phrasal replacement	-	5	-	-	5	-
Word Swapping	5	-	4	5	-	5
Sentence Rearrangement	-	-	-	2	-	6
Misspelt/ Inappropriate	-	-	-	-	-	4
Error Spotting	5	5	3	-	5	-
Starters	3	-	-	-	-	-
Word usage	4	5	-	-	-	-
Synonyms/ Antonyms	-	4	-	-	-	3
Odd one out/theme based (similar meaning)	-	-	4	1	-	-
Inferences	-	-	4	-	-	-
Total	40	40	35	40	35	40

Beginner's Quiz

➤ What are the benefits of Beginner's Quiz?

All banking Aspirants, who have cleared the exams, were once Beginners. It is a level at which the aspirants need to “**learn the basics thoroughly**”. Our team has prepared this Beginners quiz exclusively for the aspirants who need to learn basics. The level of questions in this Beginner's Quiz are at **one step below the real exam level**. After practicing all topics in our Beginner's quiz, you can be thorough with the basics. Also, you can easily analyze your strong and weaker areas.

Sample Questions for Beginners Quiz

Directions (1-7): Given below are few questions based on the passage, you have to answer these questions as per the options given after carefully reading the passage.

Days ahead of a planned trip to Beijing by US Secretary of State Antony Blinken, a Chinese spy balloon has been reported flying over the United States. While the US Air Force readied fighter jets to shoot it out of the sky, President Joe Biden was advised against doing it for fear of debris. The United States took "custody" of the balloon when it entered U.S. airspace and had observed it with piloted U.S. military aircraft, one of the officials told reporters on condition of **anonymity**.

The high-altitude balloons are the same as weather balloons deployed across the world to monitor changes in the local weather of the region. However, when it comes to spy balloons, their purpose is changed. **These balloons operate 24,000-37,000 meters above the ground.** The altitude that these balloons fly at

is well above where commercial air traffic flies. Airliners almost never fly higher than 40,000 feet. The highest-performing fighter aircraft typically do not operate above 65,000 feet, although spy planes such as the U-2 have a service ceiling of 80,000 feet or more. According to a 2009 report by the US Air Force's Air Command and Staff College, the advantages of balloons over satellites include the ability to scan wide **swathes** of territory from closer in, and to be able to spend more time over a target area. Unlike satellites, which require space launchers that cost hundreds of millions of dollars, balloons can be launched cheaply.

Spy balloons are not new and have been in use since World War II. Just after the end of the war, the US military started exploring the use of high-altitude spy balloons, which led to a large-scale series of missions called Project Genetrix. The project flew photographic balloons over Soviet bloc territory in the 1950s, according to government documents.

During World War 2, the Japanese military tried to loft incendiary bombs into U.S. territory using balloons designed to float in jet stream air currents. While it did not damage military targets, it did cause civilian casualties.

1. Which of the following is correct as per the information given in the passage?

- A. During World War 1, the Japanese military tried to loft incendiary bombs into U.S. territory using balloons designed to float in jet stream air currents.
- B. The highest-performing fighter aircraft typically do not operate above 65,000 feet, although spy planes such as the U-6 have a service ceiling of 80,000 feet or more.
- C. The high-altitude balloons are the same as weather balloons deployed across the world to monitor changes in the local weather of the region.
- D. Both A&B
- E. None of the above

2. Which of the following are advantages of balloons over satellites according to a 2009 report by US air force?

- A. ability to scan wide swathes of territory from closer in
- B. ability to spend more time over a target area
- C. ability to spend less time over a target
- D. Both A&B
- E. None of the above

3. Which of the following is correct according to the information given in the passage?

- A. During World War 2, the Japanese military tried to loft incendiary bombs into U.S. territory using balloons designed to float in jet stream air currents.
- B. The project flew photographic balloons over Soviet bloc territory in the 1950s, according to government documents.
- C. While the US Air Force readied fighter jets to shoot it out of the sky, President Joe Biden was advised against doing it for fear of debris.
- D. Airliners almost never fly higher than 40,000 feet.
- E. All of the above are correct

4. Which of the following agency released a report giving information about advantages of balloons over satellites?

- A. US air force's Air force's Air command and Staff college
- B. Genetrix
- C. Department of US army
- D. Both A&B
- E. None of the above

5. Which of the following is the synonym of "SWATHES"?

- A. unbind
- B. unlash
- C. untie
- D. All of the above
- E. None of the above

6. Which of the following is the antonym of “ANONYMITY”?

- A. innominateness
- B. namelessness
- C. incognito
- D. identified
- E. None of the above

7. **These balloon operate** 24,000-37,000 meters above the ground. Find the correct replacement of the highlighted phrase.

- A. These balloons operates
- B. These balloons operate
- C. Those balloons operates
- D. Those balloons operate
- E. None of the above

Directions (8 – 11):- In each of the questions given below, a sentence is divided into four parts such that parts are jumbled and they do not make a meaningful sentence. Rearrange the following parts to form a grammatically correct and meaningful sentence and choose the correct rearrangement from the options given below each question.

8. The verdict on (A)/ of fast-tracking projects (B)/ reveals the perils (C)/of the Chennai-Bangalore corridor (D)/

- A. DABC
- B. ADCB
- C. BCDA
- D. CDBA

E. No rearrangement is required.

9. The revised guidelines lack (A)/ clarity on benefit sharing and (B)/ do not inspire confidence with (C)/ respect to dispute resolution (D)/

- A. ACDB
- B. BCDA
- C. CDAB
- D. BDCA

E. No rearrangement required.

10. That they are leaving equities (A)/ and scooping up bonds (B)/ with the trade war (C)/, investors have become so nervous (D)/

- A. ABCD
- B. BDCA
- C. BACD
- D. CDAB

E. No rearrangement is required.

11. Injured or killed by mechanised boats, (A)/ the sea turtles are accidentally captured, (B)/ trawl nets and gill nets operated (C)/ and used by commercial fishermen. (D)/

- A. ACBD
- B. BACD
- C. CDAB
- D. DCBA

E. No rearrangement required.

Directions (12-14): In the questions below, a sentence is given, followed by five options.

Choose the option that is correct with respect to grammar, meaning and usage.

12. The museum of art comprises of an picture gallery, a collection of casts of Thorvaldsen's works and a cabinet of engravings.

- A. art comprises of a
- B. art comprises a
- C. art comprising of a
- D. art comprises an
- E. No replacement needed

13. The number of students applying to college having risen steadily in the last three years.

- A. for colleges have risen
- B. to college have risen
- C. to colleges has risen
- D. to college has rise
- E. No replacement needed

14. One of the student's were selected to visit NASA.

- A. students were
- B. student was
- C. student were
- D. students was
- E. No replacement needed

Directions (15-18): Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error if any, will be in one part of the sentence. The number of that part is

the answer. If there is 'No error' the answer is e. (Ignore errors of punctuation if any).

15. The radio station had an /(A) open line on which/(B) listeners could call up to /(C) discuss about various issues./ (D) No Error /(E)

- A. A
- B. B
- C. C
- D. D
- E. E

16. India's main trading partners/(A) have been trapped in low/(B) or no growth, /(C) unable to buy more good and services. /(D) No Error /(E)

- A. A
- B. B
- C. C
- D. D
- E. E

17. She knew milkshakes had a /(A) bad affect on her digestion, /(B) but she couldn't resist /(C) the creamy, chocolatey goodness. /(D) No Error /(E)

- A. A
- B. B
- C. C
- D. D
- E. E

18. Under food shortage, the animals might /(A) have a strategy in which/(B) they elongate their life span to/(C) increase the total number of offsprings produced. /(D) No Error /(E)

- A. A
- B. B
- C. C
- D. D
- E. E

Directions (19-21): The following questions consist of a sentence. Four of the words of the sentences are marked in bold, which may or may not be correctly spelt. Choose the correct option.

19. Teckling(A) employment rates must be high priorities(B) particularly in the rural areas and the tribal belt(C) of state ensuring transparency(D) in governance.

- A. A
- B. B
- C. C
- D. D
- E. None of the above

20. Age funding and doping(A) are grim(B) realities as young athletes seeking jobs and chaze(C) models at zonal(D) age group and national groups.

- A. A
- B. B
- C. C
- D. D
- E. None of the above

21. Mr. Sukhu's elevation also unsetles(A) the entrenched(B) power structure in the congress

and he will have to ensure(C) the support of the family and loyalists(D) ofVirbhadra Singh.

- A. A
- B. B
- C. C
- D. D
- E. None of the above

Direction (22-25): A Sentence is given with four words highlighted in bold which may or may not be in their proper place, you have to interchange them in order to make the sentence contextually and meaningfully correct. If all the words are correct, mark E as your answer.

22. The global (A) economy is plummeted (B) out from the depths to which (C) it had climbing (D) during the Great Lockdown in April.

- A. B-D
- B. A-C, B-D
- C. A-D
- D. B-C
- E. No interchange required.

23. With the parts (A) of the steam-engine, trains and steamships carried (B) goods to various invention (C) of the world in lesser (D) time.

- A. A-D
- B. A-D, B-C
- C. B-D
- D. A-C
- E. No interchange required.

24. Human **dependency (A)** on marine wildlife and the **linked (B)** fate of marine and terrestrial fauna **necessitate(C)** that we act quickly to slow the **advance (D)** of marine defaunation.

- A. A-D
- B. B-C
- C. A-D, B-C
- D. B-D
- E. No interchange required.

25. The way we **live (A)** and work has **changed (B)** because of the **pandemic(C)** and the way we **travel (D)** has changed as well.

- A. A-B
- B. C-D
- C. B-C
- D. A-D
- E. No interchange required.

Direction (26-30): Below a passage is given with five blanks labeled (A) – (E). Below the passage, five options are given for each blank. Choose the words that fit the blank appropriately in context with the passage, and mark the corresponding answer.

There was once a shepherd boy who liked to play tricks. One day, while he was __ (A) __ over the herd, the boy decided to play a trick and cried “wolf! Wolf!” The people who heard __ (B) __ over to help him. But they were __ (C) __ when they saw that there was no wolf and the boy was laughing at them. The next day, he did it again and people rushed to his aid only to be

disappointed once again. On the third day, the boy saw a wolf __ (D) __ one of his sheep and cried for help. But the people who heard him __ (E) __ this is just another of the boy’s pranks so no one came to help him. That day, the boy lost some of his sheep to the wolf. The moral of the story is if you always lie and cheat on other people, there will come a time when no one will believe you anymore.

26. Which option fits (A)?

- A. looking
- B. seeing
- C. watching
- D. all a, b, c will fit
- E. none of these

27. Which option fits (B)?

- A. landed
- B. walked
- C. rushed
- D. denied
- E. none of these.

28. Which option fits (C)?

- A. fainted
- B. fulfilled
- C. disappointed
- D. worried
- E. none of these

29. Which option fits (D)?

- A. murder
- B. killing

- C. both a & b
- D. devouring
- E. none of these

30. Which option fits (E)?

- A. Thought
- B. dreamt

- C. expected
- D. All a, b, c can fit
- E. none of these

ANSWER WITH EXPLANATION

1. Answer: C

Here, option A is incorrect as world war 2 should be there, and in option c U-2 should be there.

Only option C is correct as per the information given in the passage. So, option C is the correct answer.

2. Answer: D

Here, as per the line, according to a 2009 report by the US Air Force's Air Command and Staff College, the advantages of balloons over satellites include the ability to scan wide swathes of territory from closer in, and to be able to spend more time over a target area, we can say that option D is the correct answer.

3. Answer: E

Here, all of the given options are correct as per the given passage. So, option E is the correct answer.

4. Answer: A

Here, as per line, according to a 2009 report by the US Air Force's Air Command and Staff College, the advantages of balloons over satellites include the ability to scan wide swathes of territory from closer in, and to be able to spend more time over a target area, we can conclude that option A is the correct answer.

5. Answer: E

Here, swathe means a large area of something to get wrap. Here, all options are antonyms of swathe and question is asking for synonym. So, option E is the correct answer.

6. Answer: D

Here, anonymity means the situation where person name is not known. Identified is the

antonym of anonymity and rest are synonyms.

So, option D is the correct answer.

7. Answer: B

Here, balloons should be used in place of balloon.

So, option B is the correct answer.

8. Answer: B

Any sentence answers the questions of what, where and why logically. It answers at least one of the question types. Here in the above-given sentence, two questions can be asked i.e. what the issue is? And what does it reveal? To answer these questions the issue is the verdict on the Chennai-Bangalore corridor and it reveals the perils of fast-tracking projects. Therefore the correct arrangement is option b.

9. Answer: E

The given sentence is already arranged in proper order.

10. Answer: D

Here in this sentence, the trade war is the situation, with this situation the investors are so nervous as the result the effect is that they are leaving equities and scooping up the bond. Thus the answers for what the situation is? What is the

decision of investors? And as a result, what were the actions taken by the investors had been answered. Thus the correct option is d.

11. Answer: B

Here on reading the sentence logically, we can identify two questions that need to be answered. The questions are what the issue is? How is it happening; the issue is that sea turtles are accidentally captured, injured or killed. The answer to the question "how" mechanised boat trawl nets and gill nets are operated and used by commercial fishermen. Thus the correct choice for the option is b.

12. Answer: B

The word "comprises" is in active voice and "of" should not be used with it. "Comprises" already means "consists of, be made up of". Also "an" should not be placed before the consonant sound. Thus, option (b) is the correct choice.

13. Answer: C

The phrase "the number of" is followed by "plural noun" & "singular verb" forms. The reason why "the number of" calls for a singular verb as the "the number" refers to a specific number. Thus, option (c) is the correct choice.

14. Answer: D

“One of the” is always followed by “plural noun” and “singular verb”, thus option (d) is the correct choice.

15. Answer: D

The verb **discuss** is never used with the preposition about. It is simply followed by a direct object. Therefore, it does not require a preposition.

16. Answer: D

The grammatical error of the sentence is in option D. Here the use of the noun ‘good’ is incorrect. This is so because there are some nouns that have different meanings in their singular and plural forms. ‘Good’ means an approval/appreciation or validation for some task and ‘goods’ means merchandise or possessions. So, according to the given sentence latter should be used here. Thus, replace “good” with “goods” to make the sentence grammatically correct.

17. Answer: B

The grammatical error of the sentence is in option B. “Affect” is a verb that means to have an

influence on someone or something or to cause a change in someone or something. “Effect” is a noun that means the result of a particular influence. In the given sentence, a noun is needed in place of a verb, and the verb is already mentioned. In order to make the sentence correct, replace “affect” with “effect”.

18. Answer: D

The grammatical error of the sentence is in option D. The error is related to the noun “offsprings”. Singular and plural versions of a few nouns are the same: offspring, deer, sheep, aircraft, apparatus, etc. are a few of them.

For example,

A small aircraft was obstructing the runway.

Eagles fly alone, but sheep flock together.

The deer population has increased substantially in recent years.

‘Offspring’ means ‘the young of an animal or humans’. Here, ‘offspring’ is a plural noun as it is written after the clause ‘number of’. In order to make the sentence correct, replace ‘offsprings’ with “offspring”

19. Answer: A

Option a. Spelling of tecklling is incorrect instead it should be tackling to make the sentence

contextually correct. And it means to seize, take hold of, or grapple with especially with the intention of stopping or subduing.

20. Answer: C

Option c. Spelling of chaze is incorrect instead it should be chase to make the sentence contextually correct. And it means to go after or on the track of something or someone.

Doping means to give a drug secretly to a person or an animal, especially to make him/her/it sleep.

Grim means very serious; not smiling

21. Answer: A

Option a. Spelling of unsetles is incorrect instead it should be unsettles to make the sentence contextually correct. And it means to make somebody feel upset or worried, especially because a situation has changed.

Entrenched means firmly established and difficult or unlikely to change; ingrained.

22. Answer: A

The sentence says that the global economy is improving from the great lockdown, here improving is a positive word. Plummeted means to fall suddenly and quickly from a high level or position. So we cannot say plummeted here, as it

provides negative context to the sentence.

Climbing means to move up towards the top of something. Hence B-D should be swapped.

Hence, option A is the correct answer.

23. Answer: D

In this sentence, A and C should be swapped.

With the invention of steam engines goods were carried to various parts in a lesser time. Hence, option D is the correct answer.

24. Answer: A

Human - it can be used as adjective or noun. In this sentence, it is used as noun. "Dependency" is also a noun. We know that two nouns cannot be placed consecutively. From this, we can understand that "dependency" need to be swapped. "Linked" and "Necessitate" is contextually correct to this sentence. So, we can infer that A-D should be swapped. Hence, option A is the correct answer.

25. Answer: E

All the highlighted words are placed in the correct position, need not to be interchanged. Hence option E is the correct answer.

26. Answer: C

Watching – looking at someone or something for an amount of time and paying attention to what is happening.

Seeing – to notice or become aware of someone or something by using your eyes.

Looking – To direct the eyes in a particular direction.

In the passage, it tells us about shepherd boy which means he is using all his senses to monitor the herd so option c is the correct option. All the other options do not fit in with the context of the passage.

27. Answer: C

Rushed – to move or to do something with great speed.

Walked – to move in this way for exercise or pleasure.

Landed – to bring something to the ground.

Denied – to refuse to admit or accept something.

In the sentence this line speaks about an emergency action so rushed is the correct word that suits the gap.

The words landed and denied (options a & d) are totally out of context with the idea of the passage.

Option b is rejected because it denotes normal action which does not fit the gap as the requirement is emergency action.

28. Answer: C

Disappointed – to be dissatisfied with someone or something

Fainted – to lose consciousness

Fulfilled – to make somebody feel completely happy and satisfied

Worried – to think that something bad might happen or has happened

In the sentence, we can understand that the people felt extremely dissatisfied with the action of the boy so the correct option that suits the blank is option c.

29. Answer: D

Devouring – to eat something quickly because of hungry.

In the sentence, we can understand that it speaks about the predator's instinct which is to hunt prey while hungry so devouring is the exact word that fits the sentence.

Killing and murder are words used to describe the crime that is not in the context of the passage.

30. Answer: A

Thought – an idea or opinion

If we read the sentence as the people have experienced the situation already so they decided

that it will be a false alarm so the correct word is thought.

Dreamt cannot be used as it is used to describe the future positively.

Expected is not related to the context of the passage.

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Sample Questions for Topic wise Bundle

Directions (1-4): In the questions given below, two columns in a table have been given that contain sentences that have been broken into parts. You have to read the same carefully and match the parts that make a grammatically correct sentence. The option containing the correct combination would be your answer.

1.

Column I	Column II
A. Public transport can function at 100% seating capacity	D. COVID-19 spread and states' COVID-19 preparedness while

	focussing on poll-bound states.
B. A propeller cut through the cabin of a charter plane after a bird hit	E. with fully-vaccinated persons and maskless persons will be fined ₹1,000.
C. It clarified that EC was presented with the global and domestic status	F. the engine during landing in the Limpopo province of South Africa.

A. A-F, C-D

B. B-D, C-E

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C. A-E, C-F

D. A-E, B-F

E. B-E only

2.

Column I	Column II
A. Prices for all categories in the food price index except dairy products	D. and also undertake RT-PCR COVID-19 test on the eighth day of arrival in India.
B. All international arrivals in India will have to undergo 7-day mandatory home quarantine	E. Kazakhstan's President Kassym-Jomart Tokayev said that he has asked security forces for shoot protestors without warning.
C. After protests over fuel prices turned into a countrywide wave of unrest,	F. fell slightly in December but continued to increase during the other months.

A. A-F, B-D,

B. A-F, B-D, C-E

C. B-D, C-E

D. A-E, C-F

E. C-E, B-F, A-D

3.

Column I	Column II
A. Justice Ayesha	D. in the second Test.

Malik, 55, has been appointed as the first woman judge

Pujara and Rahane scored 53 and 58 respectively in Johannesburg.

B. South Africa beat India by seven wickets

E. of Pakistan's Supreme Court, nearly 75 years after the country's independence.

C. The price of the world's largest cryptocurrency Bitcoin fell as much as 5%

F. to its lowest level since late September.

A. A-D, B-F

B. A-E, B-D, C-F

C. C-D only

D. B-D, A-F

E. C-F only

4.

Column I	Column II
A. The Gujarat government announced that it has postponed the 10th edition	D. held by speaker manufacturer Sonos, the US International Trade Commission (USITC) has ruled.
B. Google infringed on five audio technology patents relating to smart speakers	E. a benchmark in a public-private partnership for citizen services.
C. Our partnership with MEA over the last	F. of the Vibrant Gujarat Global Investors Summit

decade has become	(VGGIS) due to rise in COVID-19 cases in the state.
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- A. A-D, B-E
- B. B-E, C-D, A-F
- C. A-D, C-F
- D. A-E, B-D, C-F
- E. A-F, B-D, C-E

Directions (5-8): In each of the following questions, two sentences are given below followed by three options. You are required to join these two sentences by using three options without changing the actual meaning.

a) Vande Bharat trains can run at a speed of 160 kmph.

b) The tracks in Kerala have only a maximum sectional speed varying between 80 kmph and 110 kmph.

- I. Since the tracks in Kerala have....
- II. While Vande Bharat trains.....
- III. Although Vande Bharat trains....

- A. Only I
- B. Both I and III
- C. Only II
- D. Both III and II
- E. Only III

6.

a) Vande Bharat trains could be an alternative to Kerala Rail Development Corporation Limited (K-Rail)

b) K-Rail has come out with a statement denying such claims.

I. But K-Rail has come out.....

II. A statement by K-Rail denying claims that.....

III. Amidst claims that Vande Bharat trains.....

- A. Only II
- B. Both II and III
- C. Only III
- D. Both I and II
- E. Only I

7.

a) Five people were reportedly killed.

b) An accident at an illegal coal mine in Jharkhand's Dhanbad.

I. After an accident at an illegal coal....

II. At least five people were reportedly....

III. As in Jharkhand's Dhanbad....

- A. Only I
- B. Both I and III
- C. Only II
- D. Both I and II
- E. Only III

8.

a) The rally was denied permission

b) Police across the state launched a massive crackdown and detained employees who were trying to reach Vijayawada.

I. Since the rally was....

II. Because the rally was....

III. As the rally was....

- A. None I, II and III

- B. Both I and III
- C. Both II and III
- D. All I, II and III
- E. Both I and II

Directions (9-12): Each sentence below carries a blank in which words from the options can be filled to complete the sentences meaningfully. You must read the same carefully and choose the appropriate options as your answer.

9. The necessary tools to stop this preventable disease and _____ it completely are available.

- A. Eliminate
- B. Cured
- C. Admire
- D. Disqualify
- E. None of these

10. The country has also moved _____ digital payments and a lot of progress has been made in this regard.

- A. In
- B. Regards
- C. Into
- D. Towards
- E. Forward

11. The situation is similar in other developed countries and the contributory system has an _____ of social security which works well.

- A. Element

- B. Reflection
- C. Condition
- D. Association
- E. None of these

12. These factors have _____ businesses to become more agile and find new ways of improving efficiency.

- A. pushed
- B. enable
- C. induced
- D. compelling
- E. Both (a) and (c)

Directions (13-15): In each of the following questions three sentences are given with a word highlighted in it and followed by five options. You are required to find out in which of the following sentences the word is inappropriately used from the given options.

13.

- I. Police tried to **prevent** the crowd from moving towards the complex and also took several protesters into its custody.
- II. Two people were **injured** after a drone fell on them during the Republic Day function at Jabalpur Stadium in Madhya Pradesh.
- III. Pandit Anindya Chatterjee, **imminent** tabla player, has declined the offer of Padma Sri honor.

- A. Only III
- B. Only II
- C. Both I and III
- D. Both II and III

E. Only I

14. Feasibility

I. There is a **possibility** that school will be cancelled if it rains heavily.

II. It was **impractical** for the mother to believe her daughter could learn cooking in second standard.

III. Rising costs and expenses are threatening the **viability** of many businesses and firms.

A. Only III

B. Only II

C. Both I and III

D. Both II and III

E. Only I

15. Remarkable

I. When Ravi won the lottery, he believed it was an **exceptional** day.

II. **Habitual** issues with her heart caused the patient to go to the hospital at least once a month.

III. Although it seemed extreme to other bank staff, working a 16 hour shift was part of the officer's **ordinary** day.

A. Only III

B. Only II

C. Both I and III

D. Both II and III

E. Only I

Directions (16-23): The following passage carries information based on which questions have been

framed below the same. You must read the same **carefully** and answer the questions that follow

Data from Wetlands International shows India has lost nearly two of five wetlands in the last 30 years, while 40% of them can't support aquatic animals. Most of this degradation is thanks to usual culprits – unplanned infrastructure, pollution, over-**exploitation**, reclamation. Given that wetlands are vitally important for water storage and aquifer recharge and play the role of storm buffers and flood mitigators, their erosion is bad news on several critical fronts. Wetlands are also natural carbon sinks, making them _____ for combating climate change.

A total of 75 Indian wetlands with a surface area of over a million hectares are designated as wetlands of international importance under the Ramsar Convention, which India ratified in 1982.

But even the largest among them, the Sundarbans wetland, has lost around 25% of its mangroves due to erosion over the past three decades.

One of the main culprits for this is reduction in sediments due to upstream dams.

Similarly, encroachment and construction on urban wetlands like the Pallikaranai marsh in Chennai have made cities susceptible to flooding.

In fact, Vadodara lost 30% of its wetlands between 2005 and 2018, while Hyderabad has lost 55% of its semi-aquatic bodies due to inefficient waste management and unchecked urban development.

True, GOI has notified the Wetlands (Conservation and Management) Rules, 2017 to serve as a regulatory framework for conservation efforts. But most of the assistance provided by the Centre to states for conservation of wetlands is directed towards the notified Ramsar sites, ignoring urban wetlands. Unless greater awareness is created about the benefits of wetland conservation and urban planning actively incorporates preservation of these bodies – Delhi Master Plan 2041 is a good start – the situation will worsen. Wetlands are natural shock absorbers. We need that protection.

16. What is the tone of the passage?

- A. Optimistic
- B. Alarming
- C. Ethical
- D. Laudatory
- E. Speculative

17. Which of the given ideas explain the central theme of the passage?

- A. Wetlands are nature's shock absorbers which need to be revived and redeveloped
- B. The degradation of the wetlands is a real bad news for the urban future
- C. Climate change is getting denser and the impacts can only be reduced through wetlands
- D. India came up with the concept of wetlands in the year 1982
- E. None of these

18. Which of the given options is not true as per the passage?

- A. India has lost nearly 2 out of every 5 wetlands in the past 40 years
- B. About 75 Indian wetlands have been designated to be of international importance
- C. 40% of the wetlands are not capable of supporting aquatic animals
- D. Vadodara has lost 30% of its wetlands in just 13 years
- E. All are true

19. What is reason behind Hyderabad losing 55% of its semi-aquatic bodies?

- A. Frequent storms and flood mitigators
- B. Inefficient waste management
- C. Both (a) and (b)
- D. Unchecked urban development
- E. Both (b) and (d)

20. Which of the following can be inferred from the last paragraph?

- A. Encroachment and construction lead to flooding in wetlands
- B. Most of the Centre's assistance is focussed on Ramsar sites
- C. Urban wetlands are suffering as a result of ignorance
- D. Both (b) and (c)
- E. All of these

21. Choose the option that fills the blank given above.

- A. Crucial
- B. Vulnerable
- C. Effective
- D. Utility
- E. Alternative

22. Choose the most appropriate synonym of the word '*exploitation*' from the options below.

- A. Abundant
- B. Inactivity
- C. Misuse
- D. Overdependence
- E. Detest

23. Choose the option that carries the erroneous part as your answer.

- A. But even the largest among them,
- B. the Sundarbans wetland, has lost
- C. around 25% of its mangroves due to
- D. erosion over the past three decades.
- E. No Error

Directions (24-28): Following are the jumbled sentences, arrange the sentences to make a coherent paragraph. And answer the questions given below.

- a) A few years later, another woman, who worked for Gates' philanthropic foundation, said that he asked her out during a work trip to New York.
- b) Bill Gates "pursued" several women in his office long after he wed now-estranged wife Melinda in 1994.

- c) "If this makes you uncomfortable, pretend it never happened," Gates emailed the employee.
- d) Some of the employees say they didn't see Gates' behaviour as predatory, noting that he didn't pressure the women to submit to his advances. It's unclear how much Melinda knew about her husband's office behaviour
- e) In one instance, following a presentation by a female Microsoft employee in 2006, Gates asked her out to dinner, the New York Times said.

24. Which of the following is the FIRST sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

25. Which of the following is the SECOND sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

26. Which of the following is the THIRD sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

27. Which of the following is the FOURTH sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

28. Which of the following is the FIFTH sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. E

ANSWER WITH EXPLANATION

1. Answer: D

The sentences after matching are as follows:

A-E → Public transport can function at 100% seating capacity with fully-vaccinated persons and maskless persons will be fined ₹1,000.

B-F → A propeller cut through the cabin of a charter plane after a bird hit the engine during landing in the Limpopo province of South Africa.

C and D could be connected but the sentences even after joining look incomplete.

So, the best option is (d).

2. Answer: A

The sentences after matching are as follows:

A-F → Prices for all categories in the food price index except dairy products fell slightly in December but continued to increase during the other months.

B-D → All international arrivals in India will have to undergo 7-day mandatory home quarantine and also undertake RT-PCR COVID-19 test on the eighth day of arrival in India

C and E match but grammatically the sentence will be incorrect as in E, '...to shoot protestors...' should be used and not 'for'

Therefore, combinations in option (a) are correct.

3. Answer: B

The sentences after matching are as follows:

A-E → Justice Ayesha Malik, 55, has been appointed as the first woman judge of Pakistan's Supreme Court, nearly 75 years after the country's independence.

B-D → South Africa beat India by seven wickets in the second Test. Pujara and Rahane scored 53 and 58 respectively in Johannesburg.

C-F → The price of the world's largest cryptocurrency Bitcoin fell as much as 5% on Friday to its lowest level since late September. The above combinations can be found in option (b).

4. Answer: E

The sentences after matching are as follows:

A-F → The Gujarat government announced that it has postponed the 10th edition of the Vibrant Gujarat Global Investors Summit (VGGIS) due to rise in COVID-19 cases in the state.

B-D → Google infringed on five audio technology patents relating to smart speakers held by speaker manufacturer Sonos, the US International Trade Commission (USITC) has ruled.

C-E → Our partnership with MEA over the last decade has become a benchmark in a public-private partnership for citizen services.

5. Answer: D

We can frame these two sentences by using options II and III.

II. While Vande Bharat trains can run at a speed of 160 kmph, the tracks in Kerala have only a maximum sectional speed varying between 80 kmph and 110 kmph.

III. Although Vande Bharat trains can run at a speed of 160 kmph, the tracks in Kerala have only a maximum sectional speed varying between 80 kmph and 110 kmph.

While and although both are contrasting connectors.

Hence option D is the correct answer.

6. Answer: B

We can frame these two sentences by using option II and III.

II- A statement by K-Rail denying claims that Vande Bharat trains could be an alternative to Kerala Rail Development Corporation Limited.

III- Amidst claims that Vande Bharat trains could be an alternative to Kerala Rail Development Corporation Limited (K-Rail), K-Rail has come out with a statement denying such claims.

Hence option B is the correct answer.

7. Answer: D

We can frame these two sentences by using options I and II.

II- At least five people were reportedly killed after an accident at an illegal coal mine in Jharkhand's Dhanbad.

I- After an accident at an illegal coal mine in Jharkhand's Dhanbad, five people were reportedly killed.

Hence option D is the correct answer.

8. Answer: D

We can frame these two sentences by using all the three options.

I- Since the rally was denied permission, police across the state launched a massive crackdown and detained employees who were trying to reach Vijayawada.

II- Because the rally was denied permission, police across the state launched a massive crackdown and detained employees who were trying to reach Vijayawada.

III- As the rally was denied permission, police across the state launched a massive crackdown

and detained employees who were trying to reach Vijayawada.

Hence option D is the correct answer.

9. Answer: A

The word **eliminate** means to remove completely. The sentence talks about eliminating the disease completely. The word **cured** is grammatically incorrect. **Admire** means regard someone.

Disqualify means to reject something.

The only option that is fit for the blank is given in option (a).

10. Answer: D

Moved towards is the most appropriate usage in the given blank.

The other options can be eliminated as these do not fit the context.

Therefore, the best would be to mark option (d) as the answer.

11. Answer: A

An element of should help us complete the above sentence meaningfully.

The words reflection and condition do not fit grammatically and can be ruled out.

The word **association** should be followed by **with** in such contexts. So, this can be ruled out as well.

This makes option (a) the best answer for the sentence above.

12. Answer: E

The given sentence can correctly take the words in both the first and the third options.

Both **pushed** and **induced** can be understood as; to make or persuade somebody to do something.

The factors in the sentence have made the businesses more agile and so on...

Enable and **compelling** are grammatically misfit.

This makes the words in option (e) the most appropriate choice for the answer.

13. Answer: A

Out of the given sentences, the highlighted word “**imminent**” has not been used appropriately, thus altering the entire meaning of the sentence.

Imminent means **about to happen** instead of this “**eminent**” which means **(of a person) famous and respected within a particular sphere** is the apt word to be used to make it contextually correct.

Hence **option A** is the correct answer.

14. Answer: B

The highlighted word “**Feasibility**” means “the state or degree of being easily or conveniently done.”.

Synonyms- viability, possibility

Antonym- impractical

So the antonym is used in **statement II**, thus **option B** becomes the correct answer.

15. Answer: D

The highlighted word “**Remarkable**” means “different from the ordinary in a way that causes curiosity or suspicion”.

Synonym- exceptional,

Antonyms- ordinary, habitual

So the antonym is used in **statement II,III** , thus **option D** becomes the correct answer.

16. Answer: B

The passage talks about an issue that is very concerning as the wetlands being described are said to be receding day by day. It is a very disturbing situation. The author has tried explaining what can go very wrong if steps are not taken now.

Optimistic means “positive and it does not match with the tone so, can be eliminated”. **Alarming** means “worrying or disturbing”. This fits the context of the passage. **Ethical** means “morally correct which does not fit the context”.

Laudatory means “praising” and **speculative** means “based on guesswork”. These tones also do not describe the passage.

So, the correct answer is option (b).

17. Answer: B

The first and the second options are very close and confusing. The first option talks about wetlands being nature’s shock absorbers which can be found in the passage. But, the latter part of the statement which talks about their revival makes it inappropriate. The passage does not

mention that they are extinct so revival is not the correct sense.

The third sentence is distorted as well because, it has nowhere been mentioned that wetlands are the only things that can fight climate change. (d) is incorrect and can be ruled out.

The only option that properly explains the central theme is the second one.

So, (b) is the correct answer.

18. Answer: A

The first statement is incorrect as it the wetlands have been lost in the past 30 years and not 40 years as per the passage.

The other statements are all correct and can be eliminated.

So, the correct answer is option (a).

19. Answer: E

The lines given below from the second paragraph help us confirm the answer:

Hyderabad has lost 55% of its semi-aquatic bodies due to *inefficient waste management* and *unchecked urban development*.

The points given in (b) and (d) can be confirmed from the above line.

This makes option (e) the best answer.

20. Answer: D

Refer to the lines given below to eliminate the incorrect options:

True, GOI has notified the Wetlands

(Conservation and Management) Rules, 2017 to

serve as a regulatory framework for conservation efforts. *But most of the assistance provided* by the Centre to states for conservation of wetlands *is directed towards the notified Ramsar sites, ignoring urban* wetlands.

This makes the statements in (b) and (c) correct. So, option (d) should be correct.

21. Answer: A

The word in the blank should be an adjective that would define the wetlands to be an important component to fight climate change. So, the word **crucial** would fit the best.

Vulnerable means “prone to or easily affected by something”. This word does not fit well to define wetlands.

Effective is wrong contextually. Same goes for **utility**.

This makes option (a) the most appropriate answer.

22. Answer: C

The word **exploitation** means “excessively overusing or misusing someone or something”.

The word similar to the same has been given in the third option.

The first option **abundant** means “available in plenty”. This is not related to the highlighted word.

Inactivity is the antonym of the given word. **Detest** is to hate something very severely.

This makes the correct answer as option (c).

23. Answer: E

The given sentence is correct and needs no improvement.

This makes option (e) the most appropriate answer.

Directions (24-28):

The correct arrangement is BECAD. Sentence A cannot be used as a starter because ‘another women’ is mentioned, that means the other women should be mentioned in previous sentences, hence sentence E can be used before statement A, sentence B is the perfect starter which sets the tone for the passage indicating a general statement of bill’s behavior towards other female employees, followed by sentence E in which such a instance is mentioned. The pronoun ‘you’ used in sentence C is indicating the female employee mentioned in E, so EC becomes a pair, followed by sentence A in which similar instance with another women is mentioned, followed by concluding statement D in which the behavior of bill gates is concluded based on above instances, and also it is unknown that how much his wife knew about his office behavior becomes a perfect conclusion for the passage.

24. Answer: B

25. Answer: E

26. Answer: C

27. Answer: A

28. Answer: D

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Directions (1-5): Given below are a few questions with each question containing some highlighted words may be appropriate or inappropriate as per the context of the sentence. You have to choose the word which is inappropriate as your answer.

1) The EU raised several individual cases and (a) **called on** China to immediately release Tibetan activists, writers and religious leaders, who are (b) **detained** in (c) **disregard** for due process requirements.

- A. Only a
- B. Only b
- C. Only c
- D. Both a&b
- E. None of the above

2) Xi Jinping's 'One Ethnic Nation' policy promotes the idea that all ethnic groups in China are part of a single Chinese nation. The theory has been applied to Tibet and other minority regions in China to promote (a) **assimilation** and (b) **discourage** (c) **separatist** movements.

- A. Only a
- B. Only b
- C. Only c
- D. Both a&b
- E. None of the above

3) The Central Tibetan Relief Committee and other human rights groups have urged the international community to (a) **intervene**,

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speaking out against the Chinese government's policy of cultural (b) **uxoricide**, which involves a series of "reforms" aimed at (c) **eradicating** traditional Tibetan culture, including language and script.

- A. Only a
- B. Only b
- C. Only c
- D. Both a&b
- E. None of the above

4) Though leaders from the West have visited Ukraine, (a) **critics** have (b) **praised** them for not doing enough to support the Ukrainian army on the ground. Biden's visit, ahead of the first anniversary of the Ukraine war, is likely to be (c) **symbolic** too.

- A. Only a
- B. Only b
- C. Only c
- D. Both a&b
- E. None of the above

5) More than 7,000 civilians were killed, eight million people (a) **mooted** their homes, and an inflation (b) **spiral** the likes of which the world has not seen in a long time — this, in (c) **nutshell**, has been the story of the 12 months of war between Russia and Ukraine.

- A. Only a
- B. Only b
- C. Only c
- D. Both a&b

E. None of the above

Directions (6-10): A passage has been given below with some blanks highlighted in it followed by five questions. You are required to read the passage carefully and fill the blank with the correct word with the correct one in order to make the passage meaningful.

According to the National Statistical Commission, the literacy rate in India is 73%. However, the financial literacy rate is very less, around 24%. _____(6)_____ to the other emerging economies of the world, the financial literacy rate of India is very low _____(7)_____ reading habits and to increase the financial literacy of the country the Gol is to launch National Digital Library. The announcement about the library _____(8)_____ by the finance minister Smt Nirmala Sitharaman during her budget presentation. The main objective of the National Digital Library is _____(9)_____ the habit of reading among children. Under this initiative, the state governments will be encouraged to create physical libraries at ward levels and panchayats. Also, they shall provide infrastructure facilities to access the resources of the National Digital Library. Experts from the education sector believe that the union budget 2023-24 mainly focuses on making India a knowledge-driven economy. This is to be done by _____(10)_____ the underprivileged sectors in the country.

6) Find out the appropriate word.

- A. separated

- B. balanced
- C. compared
- D. consider

7) Find out the appropriate words.

- A. to award
- B. to decline
- C. to confuse
- D. o inculcate

8) Find out the appropriate words.

- A. was said
- B. was developed
- C. was destroyed
- D. was made

9) Find out the appropriate words.

- A. to confuse
- B. to dissuade
- C. to encourage
- D. to depress

10) Find out the appropriate words.

- A. justifying
- B. strengthening
- C. toughen
- D. condensing

Directions (11-15): In each of the following questions, a sentence is given with two blanks followed by five options; You have to choose from the given options the right pair of words to be filled in the blank and mark it as your answer.

11. Every (a)_____ teaches us and provides us with the experience to (b)_____ best practices.

- A. calamity, adopt
- B. calamity, adept
- C. aspect, adopt
- D. aspect, adept
- E. None of the above

12. The US envoy to Israel said Prime Minister Benjamin Netanyahu should slow progress on a judicial (a)_____ that could make it harder for Washington to help him promote (b)_____ with Saudi Arabia or deal with Iran.

- A. precession, ties
- B. overhaul, ties
- C. overhaul, foe
- D. precession, foe
- E. None of the above

13. Twelve newly (a)_____ pieces of music will play at the (b)_____ of Britain's King Charles at Westminster Abbey this May, including Greek Orthodox music, Buckingham Palace said, with the 18th century "Zadok the Priest" also to be featured.

- A. commissioned, incarnation
- B. facilitated, coronation
- C. commissioned, coronation
- D. facilitated, incarnation
- E. None of the above

14. Russia's nearly yearlong invasion of Ukraine has (a)_____ discussions at the Munich

conference, an annual (b)_____of security and defence officials from around the world.

- A. dominated, prevaricated
- B. highbrow, gathering
- C. highbrow, prevaricated
- D. dominated, gathering
- E. None of the above

15. Ukraine, owing to (a)_____military aid from key (b)_____, too, has indicated that it too is fully prepared to counter any attack.

- A. disdainful, allies
- B. sardonic, allies
- C. allying, military
- D. generous, allies
- E. None of the above

Directions (16-20): In each of the following questions a table containing three columns has been given. In these columns sentences are divided into three parts. These parts given in columns may or may not join with each other. You are required to connect the sentences using three columns in order to form complete, coherent and meaningful sentences.

16.

Column I	Column II
a. The war, perceived then to get over in a matter of days, has gone on for months and a resolution	1. does not seem to be coming any time soon.
b. The war caused disruptions in the fragile	2. global food supply chain.

global supply chain, leading	
c. Ukraine too has been a key player in the	3. to the rapid escalation of food and energy prices.

- A. a-1, b-2, c-3
- B. a-2, b-3, c-1
- C. a-3, b-2, c-1
- D. a-1, b-3, c-2
- E. None of the above

17.

Column I	Column II
a. Several balloons have been intercepted and shot	1. down by the US military in recent weeks.
b. Florida introduced the new law in July last year	2. after the US Supreme Court struck down nationwide abortion rights last year.
c. Potter syndrome is a result	3. of abnormal kidney growth and function.

- A. a-1, b-2, c-3
- B. a-2, b-3, c-1
- C. a-3, b-2, c-1
- D. a-1, b-3, c-2
- E. None of the above

18.

Column I	Column II
----------	-----------

a. The Swaminarayan temple in Melbourne was	1. in Melbourne's Albert Park found the walls of the revered temple vandalised with graffiti
b. The historic Shri Shiva Vishnu Temple	2. defaced by 'anti-social elements' with anti-India graffiti.
c. The Hare Krishna Temple	3. Carrum Downs, Victoria, was vandalised in a similar manner.

- A. a-1, b-2, c-3
 B. a-2, b-3, c-1
 C. a-3, b-2, c-1
 D. a-1, b-3, c-2
 E. None of the above

19.

Column I	Column II
a. The increase in the prices is attributed to the	1. to trade lower after losing over \$120 billion in market value.
b. The pico balloons contain trackers, solar panels and antenna packages lighter than	2. a small bird, and the balloons are filled using less than a cubic foot of gas.
c. A majority of Adani	3. hike in fuel prices

Group's listed companies continue	announced by the government.
-----------------------------------	------------------------------

- A. a-1, b-2, c-3
 B. a-2, b-3, c-1
 C. a-3, b-2, c-1
 D. a-1, b-3, c-2
 E. None of the above

20.

Column I	Column II
a. The short seller's report sent ripples across the Indian stock market	1. and ripped through the market valuation of Adani Group's listed companies.
b. This makes Adani's wealth erosion the sharpest among	2. given the sharp erosion in the value of listed company stocks.
c. It could take a while before Gautam Adani can close the gap with Ambani and reclaim the position,	3. the 500 richest people listed on the Bloomberg Billionaires Index.

- A. a-1, b-2, c-3
 B. a-2, b-3, c-1
 C. a-3, b-2, c-1
 D. a-1, b-3, c-2
 E. None of the above

Answer Key with Explanation

1) Answer: A

Here, inappropriate word is called on as it means to pay a visit and as per the context of the sentence it is inappropriate. Called upon should have been used as it means to ask formally for someone to do something.

2) Answer: E

Here, all highlighted words are appropriate. So, option E is the correct answer.

3) Answer: B

Here, uxoricide used is inappropriate as it means killing of one's wife and here it is not being talked and here genocide should be used as it means the murder of all people of particular place and here cultural genocide by Chinese government is being highlighted. So, option B is the correct answer.

4) Answer: B

Exp- Here, praised used is inappropriate and here faulted should be used instead. Here contradiction and dissatisfaction can be drawn from the lines and that's why praised cannot be used but faulted can be. So, option B is the correct answer.

5) Answer: A

Exp- Here, mooted used is contextless and therefore inappropriate as it means to suggest

an idea that is to be considered or discussed by people and here fled should be used instead. As people fled their homes due to worst conditions. So, option A is the correct answer.

6) Answer: C

In this sentence option c correctly depicts "India has an extremely low level of financial literacy compared to other developing nations."

Compare: to consider things in order to see how similar or how different they are.

Separated: to make people move apart or into different places

Balanced: keeping or showing a balance so that different things, or different parts of things exist in equal or correct amounts

7) Answer: D

The Government of India is launching the National Digital Library to promote reading habits and raise financial literacy in the nation. Therefore, option d is the best answer, to inculcate means to teach and impress.

8) Answer: D

The sentence talks about the announcement about the library was made by the finance minister Smt Nirmala Sitharaman during her budget presentation. Therefore, option d is the best answer.

9) Answer: C

Encourage means to give hope, support, or confidence to somebody. The National Digital Library's primary goal is to promote children's reading habits.

10) Answer:

Strengthening: to make (someone or something) stronger, more forceful, more effective, etc. hence the best option is to do this, the nation's underdeveloped sectors must be strengthened.

11) Answer: A

Here, calamity should be used in first blank and adopt in second as calamity means an event causing great and often sudden damage or distress and adopt means to take and use of something and here sentence tries to convey the importance of adopting best practices during a calamity. So, option A is the correct answer.

12) Answer: B

Here, overhaul should be used in first blank and ties in second blank as overhaul means to look at something carefully and change or repair it if necessary and ties means a strong connection between people or organizations and in this sentence the slow progress on a judicial overhaul is being talked about and both words fit best. So, option B is the correct answer.

Foe- an enemy.

Precession- Precession is a change in the orientation of the rotational axis of a rotating body

Overhaul- to look at something carefully and change or repair it if necessary

13) Answer: C

Here, commissioned should be used in the first blank and coronation in the second blank. Commissioned means produced specifically to order and here the same is being done for the coronation of Prince Charles. So, option C is the correct answer.

Coronation- an official ceremony at which somebody is made a king or queen

Incarnation- (a person that is) a perfect example of a particular quality

14) Answer: - D

Here, dominated should be used in the first blank and gathering in the second blank. Ukraine has dominated the discussions at the Munich conference which means have power and influence over and gathering means a meeting which fits in second blank. So, option D is the correct answer.

Prevaricated- to avoid answering a question directly in order to hide the truth

15) Answer: - D

Here, it is being talked about in a sentence by friends of Ukraine who were generous by helping it in the counter attack. Therefore, generous

should be used in first blank and allies in second blank. So, option D is the correct answer.

Generous- happy to give more money, help, etc. than is usual or expected

Allies- a country that has an agreement to support another country, especially in a war

Disdainful- showing that someone does not like someone or something and thinks that they do not deserve interest or respect:

Sardonic- showing that you think you are better than other people and not taking others seriously

16) Answer: D

Here, first sentence should be matched with as a-1 as the war perceived has gone on for months and still not seem to be ending soon, second should be matched as b-3 as disruption in supply chain caused food prices to rise rapidly and finally the third sentence should be matched with leftover sentence 2 as c-2. So, option D is the correct answer.

17) Answer: A

Here, first sentence should be matched with 1 as a-1 as several balloons have been shot by US military, second sentence should be matched as 2-b as new law was introduced by florida after US Supreme Court struck down nationwide abortion and finally third sentence should be matched with leftover part 3 as c-3 as it explains about a disease potter syndrome. So, option A is the correct answer.

18) Answer: B

Here, first sentence should be matched with 2 as a-2 as it connects contextually like the temple of Swaminarayan in Melbourne was vandalised with graffiti, second sentence should be matched with 3 as b-3 like shri shiva temple in carrum down was vandalised and finally third sentence should be matched with leftover part 2 as c-2. So, option B is the correct answer.

19) Answer: C

Exp- Here, first part should be matched with 3 as a-3 as the increase in prices are attributed to hike in fuel prices, second part should be matched with 2 as b-2 as the pico balloons contain tracker and are lighter than a small bird and finally third part should be matched with leftover part 1 as c-1. So, option C is the correct answer.

20) Answer: D

Exp- Here, first part should be matched with 1 as a-1 as the short seller report on adani ripped through the market, second part should be matched with 3 as b-3 as it talks about the sharpest erosion of adani's wealth among 500 richest people listed on the Bloomberg index and finally third part should be matched with leftover part 2 as c-2. So, option D is the correct answer.

Score Booster

Directions- (1 to 8)- Read the following passage carefully and answer the questions given below. Some words are printed in bold in order to help you locate them while answering some of the questions.

The Supreme Court has sought the Government's response to appeals to allow same-sex marriage under a special law, in another bid to provide legal sanction to widening social customs. A Bench of CJI D.Y.Chandrachud and Justice Hima Kohli agreed to hear two partners who said the non-recognition of same-sex marriage amounted to discrimination that struck at the rights of LGBTQIA+ couples. The petitioners cited the Special Marriage Act, 1954, which provides a civil marriage for couples who cannot marry under their personal law. Listing the case for hearing, the Court also transferred cases pending before several High Courts to itself. It is a first step towards same-sex marriage, which has been legalised in 30-odd countries, including the U.S. where this July the House of Representatives approved legislation to protect such marriages.

This legislative action came amidst concern that an aggressive Supreme Court could revisit settled laws after it overturned Roe vs Wade on abortion rights. At depositions in courts and outside, the Centre has opposed same-sex marriage, and said judicial interference will

cause "complete havoc with the delicate balance of personal laws". This is perhaps one of the reasons why the Supreme Court may consider allowing same-sex marriage under the Special Marriage Act, and not several other personal laws such as the Hindu Marriage Act. Over the past few years, it has passed a series of judgments that challenged conservative society and

brought hope and expanded the scope for people who do not conform to age-old social norms.

Eventually though, even if the Court rules in its favour, the march towards equality for the LGBTQIA+ community will be long and arduous. Enforcing something like same sex marriage in a diverse country with varying customs and traditions will not be easy. Social mindsets are conservative and so well-entrenched that anyone who feels differently is stigmatised, humiliated and ostracized. Together with the Court, more needs to be done at the societal level to chip away at conservative

views on sex, gender, women and the LGBTQIA+ community. Alongside the call for legalising same-sex marriage, activists have been seeking the extension of the benefits of a traditional marriage to

same-sex couples, including the right to adopt children. As people's relationships change, and society undergoes transformation, constitutional

rights on freedoms and liberties must extend to every sphere, including a same-sex couple's life.

1) Which of the following statement(s) is/are true?

- i.)The Centre has opposed same-sex marriage, and said judicial interference will cause havoc.
- ii.)Constitutional rights on freedoms and liberties must extend to every sphere, including a same-sex couple's life.
- iii.)Over the ten years, it has passed a series of judgments that challenged consumer society.
- iv.)The april towards equality for the LGBTQIA+ community will be long and arduous.

- A. Only i is true
- B. Only iii is true
- C. Both i and ii are true
- D. Both iii and iv are true
- E. None of the above

2) According to the passage, who have been seeking the extension of the benefits of a traditional marriage to same-sex couples?

- A. activists have been seeking the benefits of a traditional marriage
- B. LGBTQIA have been seeking the benefits of a traditional marriage.
- C. Roe and Wade have been seeking the benefits of a traditional marriage.
- D. CJI D.Y.Chandrachud and Hima Kohli have been seeking the benefits of a traditional marriage.

E. None of the above

3) Which of the following statement(s) is/are false?

- i.)Social mindsets are conservative and so well-entrenched that anyone who feels differently is stigmatised.
- ii.)This action came amidst concern that an aggressive High Court could revisit settled laws after it is overturned Rus vs Waden on abortion rights.
- iii.)The Supreme Court has sought the Government's response to appeals to allow same-sex marriage under a special law.
- iv.)This July the House of Representatives approved legislation to protect such marriages.

- A. Only ii is false
- B. Only iii is false
- C. Both ii and iii are false
- D. Both i and ii are false
- E. None of the above

4)The Special Marriage Act, 1954 provides Which of the following assurance to people?

- A. expanded the scope for people who do not conform to age-old social norms.
- B. a civil marriage for couples who cannot marry under their personal law.
- C. step towards same-sex marriage, which has been legalised in 30-odd countries.

D. together with the Court, more needs to be done at the societal level to chip away at conservative views.

E. None of the above

5) According to the passage, CJI and Hima Kohli agreed to which of the following conditions?

A. to several other personal laws such as the Hindu Marriage Act.

B. to pass a series of judgments that challenged conservative society

C. to societal level to chip away at conservative views on sex,

D. to hear two partners who said the non recognition of same-sex marriage amounted to discrimination.

E. None of the above

6) According to the passage, what was the say of the Centre in opposing same-sex marriage?

A. that Special transferred cases pending before several High Courts to itself.

B. that the another bid to provide legal sanction to widening social customs.

C. that the judicial interference will cause complete havoc with the delicate balance.

D. that anyone who feels differently is stigmatized, humiliated and ostracised.

E. None of the above

7) What is the antonym of the word "ostracized"?

A. disruption

B. Included

C. devastation

D. calamity

E. None of the above

8) What is the synonym of the word "arduous" ?

A. grueling

B. facile

C. effortless

D. rivial

E. None of the above

Directions (9-13): The sentences given below have been taken from a paragraph but these are not in their proper order. You must rearrange the same carefully before answering the questions based on them.

A. It is simpler to have a healthy, balanced lifestyle if you are aware of the various types of nutrients present in foods, how they affect your body, and how to include them in your diet.

B. Low energy levels, chronic diseases, and significant health concerns can all result from a diet that is deficient in certain nutrients.

C. The key to good health is a balanced meal which is only possible when you think beyond one nutrient and focus on overall.

D. Consuming nutritious foods is important to fuel the body and defend it against oxidative stress and inflammation.

E. It is unavoidable that diet has an effect on health.

9. Which of the given options can best introduce the given paragraph?

- A.D
- B.E
- C.C
- D.A
- E.B

10. Which of the given options does not provide two consecutive sentences?

- A.CE
- B.BA
- C.ED
- D.EA
- E.DB

11. Which of the given options would come in the middle after rearrangement?

- A.A
- B.D

C.B

D.C

E.E

12. The option that provides the correct sequence of the given sentences is?

- A.CBAED
- B.AEDBC
- C.DCBEA
- D.EABCD
- E.CEDBA

13. Which of the given statements best sums up the given paragraph?

- A.D
- B.E
- C.B
- D.A
- E.C

Answer Key with Explanation

1) Answer: C

Option c is correct as mentioned in the second paragraph of the passage (At depositions in courts and outside, the Centre has opposed same-sex marriage, and said judicial interference will cause “complete havoc) and in third paragraph of the passage (society undergoes transformation, constitutional rights on freedoms and liberties must extend to every sphere, including a same-sex couple’s life).

2) Answer: A

Option a is correct as mentioned in the third paragraph of the passage (Alongside the call for legalising same-sex marriage, activists have been seeking the extension of the benefits of a traditional marriage to same-sex couples, including the right to adopt children.)

3) Answer: A

Option b is correct as correct statement mentioned in the second paragraph of the

passage (This legislative action came amidst concern that an aggressive Supreme Court could revisit settled laws after it overturned Roe vs Wade on abortion rights).

4) Answer: B

Option b is correct as mentioned in the first paragraph of the passage (The petitioners cited the Special Marriage Act, 1954, which provides a civil marriage for couples who cannot marry under their personal law).

5) Answer: D

Option d is correct as mentioned in the second paragraph of the passage (A Bench of CJI D.Y.Chandrachud and Justice Hima Kohli agreed to hear two partners who said the non recognition of same-sex marriage amounted to discrimination that struck at the rights of LGBTQIA+couples).

6) Answer: C

Option c is correct as mentioned in the second paragraph of the passage (At depositions in courts and outside, the Centre has opposed same-sex marriage, and said judicial interference will cause “complete havoc with the delicate balance of personal laws).

7) Answer: B

Option b is correct as it means to refuse to allow somebody to be a member of a social group or

we can say to refuse to meet or talk to somebody.

8) Answer: A

Option a is correct as it means hard to accomplish or achieve.

9) Answer: C

We can find that ED form a link as the flow of the sentences tells us that;

Diet’s effect of health is unavoidable (so) consuming nutritious food is important.

These two cannot start the paragraph for sure because, bringing the aspect of **diet** into picture before introducing **health** will make no sense.

Sentence A is more sort of a conclusion as it sums up the entire idea being discussed in the given statements. So, this should be last sentence.

Out of B and C, C should ideally start the sentence as, it talks about good health and also brings in the concept of a balanced meal after which diet can be introduced.

This helps us build the sequence as; CEDBA.

So, option (c) is the correct answer.

10) Answer: D

We can find that ED form a link as the flow of the sentences tells us that;

Diet’s effect of health is unavoidable (so) consuming nutritious food is important.

These two cannot start the paragraph for sure because, bringing the aspect of **diet** into picture before introducing **health** will make no sense.

Sentence A is more sort of a conclusion as it sums up the entire idea being discussed in the given statements. So, this should be last sentence.

Out of B and C, C should ideally start the sentence as, it talks about good health and also brings in the concept of a balanced meal after which diet can be introduced.

This helps us build the sequence as; CEDBA.

So, option (d) is the correct answer.

11) Answer: B

We can find that ED form a link as the flow of the sentences tells us that;

Diet's effect of health is unavoidable (so) consuming nutritious food is important.

These two cannot start the paragraph for sure because, bringing the aspect of **diet** into picture before introducing **health** will make no sense.

Sentence A is more sort of a conclusion as it sums up the entire idea being discussed in the given statements. So, this should be last sentence.

Out of B and C, C should ideally start the sentence as, it talks about good health and also brings in the concept of a balanced meal after which diet can be introduced.

This helps us build the sequence as; CEDBA.

So, option (b) is the correct answer.

12) Answer: E

We can find that ED form a link as the flow of the sentences tells us that;

Diet's effect of health is unavoidable (so) consuming nutritious food is important.

These two cannot start the paragraph for sure because, bringing the aspect of **diet** into picture before introducing **health** will make no sense.

Sentence A is more sort of a conclusion as it sums up the entire idea being discussed in the given statements. So, this should be last sentence.

Out of B and C, C should ideally start the sentence as, it talks about good health and brings in the concept of a balanced meal after which diet can be introduced.

This helps us build the sequence as; CEDBA.

So, option (e) is the correct answer.

13) Answer: D

We can find that ED form a link as the flow of the sentences tells us that;

Diet's effect of health is unavoidable (so) consuming nutritious food is important.

These two cannot start the paragraph for sure because, bringing the aspect of **diet** into picture before introducing **health** will make no sense.

Sentence A is more sort of a conclusion as it sums up the entire idea being discussed in the given statements. So, this should be last sentence.

Out of B and C, C should ideally start the sentence as, it talks about good health and also

brings in the concept of a balanced meal after which diet can be introduced.

This helps us build the sequence as; CEDBA. So, option (d) is the correct answer.

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Directions (1-5): In the following questions, a sentence is given with two blanks; these blanks are followed by two highlighted words. You have to choose from the given options the right pair of words to be filled in the blank and mark it as your answer.

1. Vibrant Village Action Plans will be created by district administrations with the help of Gram Panchayats. Hundred percent _____ (saturation/ sabbatical) of Central and State schemes will be _____.

(ensured/insured).

- A. saturation, ensured
- B. saturation, insured
- C. sabbatical, insured
- D. sabbatical, ensured
- E. None of the above

2. A major train disaster was _____ (averted/eschewed) when six coaches of Visakhapatnam – Secunderabad Godavari Express got _____ (derailed/augmented) between Bibinagar and Ghatkesar near Hyderabad on Wednesday.

- A. averted, augmented
- B. averted, derailed

- C. eschewed, derailed
- D. eschewed, augmented
- E. None of the above

3. The Centre agreed to a panel to be set up by the Supreme Court to _____ (strengthen/regulate) the regulatory _____ (regime/hauls) governing the securities market.

- A. strengthen, hauls
- B. regulate, hauls
- C. regulate, regime
- D. strengthen, regime
- E. None of the above

4. India is committed to providing _____ (reliable/robust) and affordable power supply to people while keeping environmental concerns as the _____ (core/unbridled) priority.

- A. reliable, core
- B. robust, core
- C. reliable, unbridled
- D. robust, unbridled
- E. None of the above

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5. The Telecom Regulatory Authority of India issued directions to check _____ (misuse/feuds) of Headers and Message Templates of Principal Entities. The TRAI is alarmed at the rise of (pesky/adore) mobile calls and messages.

- A. misuse, pesky
- B. misuse, adore
- C. feuds, pesky
- D. feuds, adore
- E. None of the above

Directions (6-10): In each of the following questions four sentences have been given, these sentences may or may not be grammatically correct. You are required to find the sentence which has an error in it. If all the sentences are correct mark "E" as your answer.

- 6.
- A. Khajuraho has one of the finest temples that is part of the UNESCO World Heritage Site.
 - B. Fans favorite and one of the most skilled Bollywood actors Dharmendra is all geared up for his digital debut with the forthcoming web series Taj Divided by Blood.
 - C. A clash erupted between two group of people over installation of a 'Toran gate' (entry gate) in a market in Jharkhand.
 - D. The Government Railway Police of Guwahati railway station said it recovered gold biscuits and 4.89 kg opium from two trains and arrested two persons.
 - E. All are correct

7.

- A. Union Home Minister and Cooperation Minister asserted that India will be able to achieve the goal of 20 per cent ethanol blend in petrol by 2025.
- B. How the ethanol project being started by the Haryana government will enhance the income of cooperative sugar mills.
- C. The free services in the government hospitals can be availed by all people, irrespective of residence, caste, or economic status.
- D. Foreign Secretary VinayKwatra was pay a two-day official visit to Bangladesh from tomorrow as part of India's "Neighbourhood First" policy.
- E. All are correct

8.

- A. Income Tax officials are conducting a survey on the Indian offices of the British public broadcaster BBC.
- B. Shiv PratapShukla will take oath as an Governor of Himachal Pradesh on February 18 at the Raj Bhawan in state capital Shimla.
- C. Central government will construct affordable, dependable, and non-slip national highways with German technology.
- D. Defence Minister was addressing over 70 CEOs of local and global Original Equipment Manufacturers during a round table organised as part of Aero India 2023 in Bengaluru.
- E. All are correct

- 9.
- A. The Centre agreed to a panel to be set up by the Supreme Court to strengthen the regulatory regime governing the securities market.
- B. The Indian tribal traditions are presented now at all international forums as part of India's glorious past.
- C. In a tragic road accident, 5 people were killed and 6 others injured after two cars returning from a wedding function collided on a tree.
- D. Union Minister of Environment BhupenderYadav announced that twelve cheetahs will arrive in India from South Africa on 18 February.
- E. All are correct

- 10.
- A. TheShinku La tunnel will be completed by December 2025 at a cost of 1,681 crore.
- B. The new project has been undertook for better connectivity between Himachal Pradesh and Ladakh during bad weather.
- C. TheNamamiGange campaign has emerged as a model for various states of the country.
- D. In the AmritKaal, India is looking towards water as the future. There will be a tomorrow if there is water," PM said.
- E. All are correct

Directions (11-15): Given below are questions with each question containing a highlighted phrase may or may not require improvement.

You have to choose from the options, the correct replacement in order to make the sentence grammatically and contextually correct. If no improvement is required then choose option E as your answer.

11. Agitated over the excessive taxes imposed by the state government, Kerala Opposition leader said that the ruling LDF is **pick the pocket of the common man**.
- A. picking the pocket of the common men
- B. picking the pocket of the uncommon man
- C. picking the pocket of the uncommon men
- D. picking the pocket of the common man
- E. None of the above

12. **Since 2023 was being celebrate** as the International Year of Millets, along with usual attractions, a special focus in the Mahotsav will be on showcasing Shree Anna grown by tribals.
- A. Since 2023 is being celebrate as
- B. Since 2023 is being celebrating as
- C. Since 2023 was being celebrated as
- D. Since 2023 is being celebrated as
- E. None of the above

13. The Chief Minister announced to **explore the feasibility on replicate** Telangana model for the conservation of precious natural resources and recharging the water table in the state.
- A. explore the feasibility to replicate
- B. explore the feasibility for replicate
- C. explore the feasibility in replicate
- D. explore the feasibility of replicate

E. None of the above

14. Punjab CM said **the need for the hour** is to channelize canal water in Punjab for saving the groundwater for the coming generations.

- A. the need of the hour
- B. the need on the hour
- C. the need to the hour
- D. the need in the hour
- E. None of the above

15. The PM stressed that the Jal-Jan Abhiyan was being launched at a time when water scarcity **was been seen as a** future crisis all over the world.

- A. was being seen as a
- B. were seen as a
- C. was seen as a
- D. were being seen as a
- E. None of the above

Directions (16-20): In each of the following questions a table containing three columns has been given. In these columns sentences are divided into three parts. These parts given in columns may or may not join with each other. You are required to connect the sentences using three columns in order to form complete, coherent and meaningful sentences.

16.

Column 1	Column 2
1. The first G20	a. setting the tone for a

Digital Economy Working Group meeting in India concluded here on Wednesday	productive and meaningful deliberations for the future DEWG meetings.
2. The three-day meeting in Lucknow, showcased India’s digital transformation journey,	b. in the DEWG agenda and supported India’s proposed priority areas broadly.
3. The member nations appreciated the inclusion of digital skilling	c. and brought together G20 members, and guest countries to discuss digital public infrastructure, cybersecurity, and digital skilling.

- A. 1-a, 2-b, 3-c
- B. 1-b, 2-c, 3-a
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-c, 3-b
- E. None of the above

17.

Column 1	Column 2
1. Prime Minister NarendraModi will inaugurate “AadiMahotsav”, the mega National Tribal Festival,	a. heritage of tribes from across the country in over 200 stalls at the venue.
2. The AadiMahotsav is	b. on February 16, at

an annual initiative of the	Major Dhyan Chand National Stadium in Delhi.
3. The AadiMahotsav will showcase the rich and diverse	c. Tribal Cooperative Marketing Development Federation Limited (TRIFED) under the Ministry of Tribal Affairs.

- A. 1-a, 2-b, 3-c
 B. 1-b, 2-c, 3-a
 C. 1-c, 2-a, 3-b
 D. 1-a, 2-c, 3-b
 E. None of the above

18.

Column 1	Column 2
1. Ethanol is one of the principal bio-fuels,	a. which is naturally produced by the fermentation of sugars by yeasts or via petrochemical processes such as ethylene hydration
2. Ethanol Blending Programme (EBP) is aimed at reducing the country's	b. dependence on crude oil imports, cutting carbon emissions and boosting farmers' incomes.
3. Ethanol blending in petrol in India has risen successively from	c. in 2013-14 to 5 per cent in 2019-20 to 8.10 per cent in 2020-21 and now to as much as 10.17 per cent.

1.53 per cent

- A. 1-a, 2-b, 3-c
 B. 1-b, 2-c, 3-a
 C. 1-c, 2-a, 3-b
 D. 1-a, 2-c, 3-b
 E. None of the above

19.

Column 1	Column 2
1. Travel time on the existing Delhi-Jaipur highway (NH-48) shall be reduced with the opening of the first phase of	a. travel time gets reduced by two hours.
2. The route will ensure that the Delhi-Jaipur	b. 120kmph speed limit for cars with wayside facilities every 30km.
3. The eight-lane expressway will have a	c. Delhi-Mumbai Expressway on Tuesday.

- A. 1-a, 2-b, 3-c
 B. 1-b, 2-c, 3-a
 C. 1-c, 2-a, 3-b
 D. 1-a, 2-c, 3-b
 E. None of the above

20.

Column 1	Column 2
1. People in Himachal Pradesh are becoming	a. so obsessed with the VIP number that they are ready to pay anything for the

	fancy numbers for their vehicles.
2. The latest example of this fixation is a bid of	b. number HP99-9999 at Rs 1,000.
3. Initially, the government fixed the price for a	c. Rs 1, 12, 15,400 a resident has made to get a number for his scooty.

unique	
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- A. 1-a, 2-b, 3-c
 B. 1-b, 2-c, 3-a
 C. 1-c, 2-a, 3-b
 D. 1-a, 2-c, 3-b
 E. None of the above

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Answer Key with Explanation

1. Answer: A

Here, saturation will be used in first blank as it means the state of maximum impregnation and here maximum impregnation of schemes is required and in second blank ensured will be used as it means to make sure that something happens, insured will not fit as it is used to protect something for any future potential losses by monetary value and here it makes no sense.

So, option A is the correct answer.

Sabbatical means a period of time when somebody is allowed to stop their normal work in order to study or travel.

2. Answer: B

Here, averted will be used in first blank as it means to prevent something unpleasant and here major train disaster was prevented to happen and in second blank derailed should be used as it means to cause a train to come off the track.

Eschewed means deliberately avoid using
 Augmented means to increase the amount.

So, option B is the correct answer.

3. Answer: D

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Here, “strengthen” will be used in the first blank as it means to make strong by taking some useful steps and here panel is to be set up to strengthen the regulatory regime, regime means a government so regime will be used in second blank. So, option D is the correct answer.

Haul means to pull something with a lot of effort or difficulty which is contextually inapt.

4. Answer: A

Here, in the first blank, reliable should be used as it means genuine and long lasting, and here in the context of this sentence it fits best and in the second blank core should be used as it means utmost or foremost, providing reliable power supply is utmost priority is the sentence. So, option A is the correct answer.

Robust means strong and healthy.

Unbridled means not controlled and therefore extreme.

5. Answer: A

Here, misuse should be used in the first blank as TRAI issued directions to check misuse of templates given. In second blank pesky should be used as it means causing trouble as if misused then it may cause trouble. So, option A is the correct answer.

Adore means to like something very much

Feuds means quarrel

Directions (6-10):

6. Answer: C

Here, error lies in **sentence C** as group should be replaced with groups as two is used before it and so two will make it plural. So, option C is the correct answer.

7. Answer: D

Here, error lies in **sentence D**, as was should be replaced with will because visit will be tomorrow so the sentence is in future tense and therefore it will use future helping verbs. So, option D is the correct answer.

8. Answer: B

Here, error lies in **sentence B**, use of an before governor is inappropriate as governor doesn't start with a vowel and “an” is used before the word starting with vowels. So, option B is the correct answer.

9. Answer: C

Here, error lies in **sentence C** as collided with a tree is the correct phrase collided on is meaningless as it says car went on tree to collide with it. So, option C is the correct answer.

10. Answer: B

Here, error lies in **sentence B**, has been/ have been / had been- all are followed by the third form of the verb, so “undertook” will be replaced by “undertaken” Hence, option B is the correct answer.

Directions (11-15):**11. Answer: D**

Here, pick should be replaced with picking as the sentence is in present continuous tense and it will carry the v1+ing form of verb. So, option D is the correct answer.

12. Answer: D

Here, was should be replaced with "is" and celebrate should be replaced with celebrated as since is used in start which makes sentence in present perfect continuous. So, option D is the correct answer.

13. Answer: A

Here, on should be replaced with to as feasibility to replicate is meaningful phrase which means to copy the same model and here and also to is preposition used to indicate a destination or direction Telangana model is being talked about in the sentence which CM wants to replicate in other states as well. So, option A is the correct answer.

14. Answer: A

Here, **the need of the hour** is the correct phrase which means the most recent need or the most pressing need which is in present tense so should be used. So, option A is the correct answer.

15. Answer: A

Here, "been" should be replaced with "being" as the sentence is in past continuous tense and "ing" form of "been" will be used which is "being". So, option A is the correct answer.

Directions (16-20):**16. Answer: D**

Here, first sentence is about G20 meeting and the column which connects contextually and grammatically is a because the reason for the meeting is given it it, in second sentence, a meeting for digital transformation is being talked in and c gives contextual match and in sentence c, some member nation are being talked which can be matched with leftover part b which gives information about the reaction of members after inclusion of digital skilling in DWEG. So, option D is the correct answer.

17. Answer: B

Here, first sentence should be matched with b as a festival will be inaugurated by PM on 16th February, second sentence should be matched with c as aadiMahotsav will showcase the rich and diverse TRIFED and third sentence should be matched with leftover part a. which gives information about what will be showcased by this AadiMahotsav. So, option B is the correct answer.

18. Answer: A

Here, first sentence should be matched with a as ethanol production is being explained, second

sentence should be matched with b as it gives the roadmap of the further going positives and final sentence should be matched with leftover part c in which comparison of past with present situation of ethanol production is done. So, option A is the correct answer.

19. Answer: C

Here, first sentence is about the time reduction due to Delhi Mumbai express way so it is matched with c, second sentence is about the exact time being saved so it is matched with a and finally third sentence is matched with b as it gives information about the speed limit for cars at the expressway. So, option C is the correct answer.

Score Booster

Directions (1-8): Read the following passage and answer the questions given below. Some words are highlighted to help you answer the questions.

In the light of the Covid-19 pandemic that has thrown unprecedented challenges, the focus has shifted towards *“Vocal for Local”* and building an *“Aatmanirbhar Bharat”*. India has a rich legacy of indigenous products, be it handicrafts, handlooms, and other produce. As the national nodal agency, TRIFED has been working extensively to help market and promote the indigenous products that tribal groups across the country have been producing since centuries. It is in this context that Geographical Indication or GI tagging has acquired even more of an importance.

20. Answer: D

Here, the first sentence should be matched with a, as obsession of people of Himachal about VIP number is being talked here and both connects contextually and grammatically, second sentence should be matched with c as some bid amount is being talked in the sentence and it correctly matches with c and third sentence should be matched with b as the initial price fixed by government is being discussed in it and that's why both matches perfectly. So, option D is the correct answer.

TRIFED, Ministry of Tribal Affairs with active collaboration and support from Lal Bahadur Shastri National Institute of Academy, Ministry of Culture, Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce; India Posts; Ministry of Tourism and Office of the Prime Minister will take up the cause of promotion of GI Tag products along with tribal products and transform them into a brand, symbolizing empowerment of tribal artisans. These initiatives will also help recognize and **promote** age-old tribal traditions and methods that in danger of being lost due to urbanization and industrialization.

In consultation with Ministry of Culture, TRIFED has identified 8 heritage locations across the country, where GI specific Tribes India stores will

be set up. Among these 8 heritage places, work is shortly expected to commence in Sarnath, Uttar Pradesh, Hampi, Karnataka, Golconda Fort, Telangana. In close collaboration with the Ministry of Culture, it has been planned to develop a designer's lab at LalQila (Red Fort), Delhi, wherein selected tribal artisans will give live demonstrations of their rich craft traditions. Pochampally in Andhra Pradesh, known for its fine Ikkat fabric, has been chosen to be the second venue where a designer's hub may be developed. Initial work in this regard is currently ongoing. In addition to the live demonstration centre, it is being proposed to set up this city as a textile hub as well.

Department of Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce has identified 370 GI tagged products out of which 50 have a tribal origin. It has been decided that Tribes India will market and promote all these 370 GI products through its extensive network. Plans are _____ to register the 50 native produces under GI, and promote these through TRIFED's existing Network of Outlets and e-commerce platforms. Efforts are underway to identify 50 more items for further promotion. Along with Department of Post, Ministry of Communication and Technology, these items will be promoted in an exhibition that will be organized in January 2021. The Department of Post is developing stamps on 6 GI items which will be showcased in this Philatelic exhibition.

Also it has been planned to supply lac and gum from Van DhanVikasKendras to India Post. Tribes constitute over 8% of our population however, they are among the disadvantaged sections of the society. An attitude that pervades among the mainstream is the erroneous belief that they have to be taught and helped. However the truth is otherwise – the tribal have a lot of teach urban India. Characterized by natural simplicity, their creations have a timeless appeal. The wide range of handicrafts which include hand-woven cotton, silk fabrics, wool, metal craft, terracotta, bead-work, all need to be preserved and promoted.

1. According to the passage, which of the following statement / statements is / are true to the context?

- 1) Ministry of Commerce has identified 370 GI tagged products out of which 50 have a tribal origin.
 - 2) Pochampally in Arunachal Pradesh, known for its fine Ikkat fabric, has been chosen to be the second venue where a designer's hub may be developed.
 - 3) Tribes constitute over 8% of our population however, they are among the advantaged sections of the society.
- A. Only 1.
B. Only 2.
C. Only 1 and 3.
D. Only 1 and 2.
E. Only 2 and 3.

2. According to the passage, what is the principal function of TRIFED in the context?

- A. TRIFED has a centralized platform to sell all the tribal products so that many countries will buy from India.
- B. The role of TRIFED is to value each and every product created by the tribal group before bringing online.
- C. TRIFED helps the tribal groups to market and promote the indigenous products made by them.
- D. All of these.
- E. None of these.

3. Which entities are not involved in the task of promoting Geographical Indication (GI) products and tribal products?

- 1) LalBahadurShastri National Institute of Academy.
 - 2) Ministry of Promotion of Industry and Internal Trade.
 - 3) Ministry of Youth Affairs.
 - 4) Ministry of Posts.
 - 5) All of these.
- A. Only 2 and 3.
 - B. Only 3 and 4.
 - C. Only 1.
 - D. Only 2.
 - E. Only 3.

4. According to the passage, how many heritage sites have been identified by TRIFED to set up Tribes India across the country?

- A. 370
- B. 50
- C. 8
- D. 6
- E. None of these.

5. What is the plan of Department of Posts in the philatelic exhibition?

- A. It has planned to launch a commemorative stamp for tribal groups on behalf of Ministry of Tourism.
- B. It has planned to supply lac and gum to India Post from Van DhanVikasKendhras.
- C. It has announced its collaboration with Ministry of Tourism to promote tribal products in each post office.
- D. None of these.
- E. All of these.

6. Choose the most appropriate word from the following options to fill the blank with proper meaning.

- A. Benign
- B. Afoot
- C. Elicit
- D. Deemed
- E. None of these.

7. Choose the word that is most SIMILAR to the highlighted word in the passage.

PROMOTE

- A. Vitiate
- B. Appalled
- C. Demote
- D. Aggrandize
- E. None of these.

8. Choose the word that is most OPPOSITE to the highlighted word in the passage.

APPEAL

- A. Permeate
- B. Disavowal
- C. Perversely
- D. Ameliorate
- E. None of these.

Directions (9-13): Given below are few questions with each questions containing three highlighted parts, you have to check whether the highlighted part need improvement or not. If highlighted part is appropriate and need no improvement then choose no improvement as your answer.

9. (a) **Amid** a serious outbreak of coronavirus across China, the (b) **country is** now limited how (c) **it defines** deaths related to the virus infection.

- A. Only a
- B. Only b
- C. Only c
- D. Both a and b
- E. No improvement

10. China (a) **was** long (b) **hailed** its restrictive 'zero-Covid' approach of lockdowns, quarantines and (c) **compulsory testing** as keeping case numbers and deaths relatively low.

- A. Only a
- B. Only b
- C. Only c
- D. Both b and c
- E. No improvement

11. Ukraine is (a) **faced** repeated Russian missile and drone strikes that (b) **have** targeted civilians and critical energy infrastructure in the country, (c) **causing** cuts to power and water supplies.

- A. Only a
- B. Only b
- C. Only c
- D. Both a and b
- E. No improvement

12. The Taliban's (a) **higher ordered** an indefinite ban on university (b) **education for woman** in Afghanistan in the latest edict (c) **cracking down** on woman's rights and freedom.

- A. Only a
- B. Only b
- C. Only c
- D. Both a and c
- E. No improvement

13. New York City is currently (a) **pursuing** a lawsuit against distributors (b) **to** the state public nuisance law (c) **seeking to** halt sales of so-called ghost guns.

A. Only a

B. Only b

C. Only c

D. Both a and c

E. No improvement

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Answer Key with Explanation

1. **Answer: A**

Only option (1) is correct, both options (2) and (3) are incorrect. According to the passage, Pochampally famous for its Ikkat fabric is present in Andhra Pradesh not in Arunachal Pradesh.

Also, Tribes are considered as the most disadvantaged sections in the society not as the advantaged sections. Hence, option A is the correct answer.

2. **Answer: C**

Options A and B are incorrect, the information provided in those are not discussed in the passage. Option C is correct, the role of TRIFED is mentioned in the first passage “TRIFED has

been working extensively to help market and promote the indigenous products that tribal groups across the country have been producing since centuries”. Hence, option C is the correct answer.

3. **Answer: B**

Only option B is correct, those entities mentioned in option A only were involved in the task of promoting GI products. “Ministry of Youth Affairs” and “Ministry of Posts” are not involved in promoting the products. Hence, option B is the correct answer.

4. **Answer: C**

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The question can be answered through the third passage. It states that “In consultation with Ministry of Culture, TRIFED has identified 8 heritage locations across the country, where GI specific Tribes India stores will be set up”. Hence, option C is the correct answer.

5. Answer: B

Only option B is correct. The Department of Posts has planned to supply lac and gum to India post. Options A and C are incorrect, the data present in both the options are irrelevant according to the context. Hence, option B is the correct answer.

6. Answer: B

Afoot (adjective) - being planned or prepared.

Benign (adjective) - (used about people) kind or gentle.

Deemed (verb) - to have a particular opinion about something.

Elicit (verb) - to manage to get information, facts, a reaction, etc. from somebody.

Here, the word in the blank should be an adjective, because it describes about the plan (noun). A word that describes about a noun is called “adjective”. So, it is better to eliminate option c and d since both the words are verbs. Option A (benign) can be used for persons or a disease. So this word will be ruled out. Therefore, option B is the correct answer.

7. Answer: D

Promote – to encourage something; to help something to happen or develop.

Aggrandize – To make greater, increase, develop.

Demote – to move somebody to a lower position or level, often as a punishment.

Appalled – feeling disgust at something unpleasant or wrong.

Vitiate – destroy or impair the legal validity of.

The word “aggrandize” is synonym for the word “promote”. Hence, option D is the correct answer.

8. Answer: B

Appeal – to make a serious request for something you need or want very much.

Disavowal – the denial of any responsibility or support for something.

Permeate – to spread through something and be present in every part of it.

Perversely – in a manner contrary to what is expected or accepted.

Ameliorate – to make something better.

The word “disavowal” is antonym for the word “appeal”. Hence, option B is the correct answer.

9. Answer: B

Here, improvement is required in b, the use of is is not appropriate and it should be replaced with has as the sentence is in present perfect tense and present perfect tense carries has or have with it. So, option B is the correct answer.

10. Answer: A

Here, improvement is needed in a, use of was is not appropriate and it should be replaced with has as the sentence is in present perfect tense. So, option A is the correct answer.

11. Answer: A

Here, improvement is required in a, use of faced is not appropriate and it should be replaced with facing due to the use of is. So, option A is the correct answer.

12. Answer: E

Here, in this question there is no need for any improvement. So, option E is the correct answer.

13. Answer: B

Here, improvement is required in b, to should be replaced with under. Distributor comes under the law not to the law. So, option B is the correct answer.

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Directions (1-5): In each of the following questions, a sentence is given with two blanks followed by six words; You have to choose from the given options the right pair of words to be filled in the blank and mark it as your answer.

1. Vice-President Jagdeep Dhankhar underlined the need to remain alert to effectively _____ the _____ narratives to run down India's growth story.

- a) intercepted
- b) counter
- c) assertive
- d) indulged
- e) doctored

f) dissipate

- A. a-c
- B. b-e
- C. d-f
- D. c-b
- E. f-a

2. Uttar Pradesh Chief Minister Yogi Adityanath _____ the nationalist fervour of the northeastern states in _____ the unity and integrity of India.

- a) praised
- b) preserving
- c) saving

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- d) creating
- e) insinuate
- f) burgeoning
- A. a-b
- B. b-e
- C. d-f
- D. c-b
- E. f-a

3. The President's Colour is a special flag given to a military, paramilitary or police unit as a mark of recognition for its services which _____ of the flag presented to the unit can be worn as an _____ by all officers and ranks of the force on their uniform.

- a) replica
- b) fanaticism
- c) insignia
- d) patriotism
- e) arraign
- f) recognition
- A. a-c
- B. b-e
- C. d-f
- D. c-b
- E. f-a

4. The theme of the first G-20 Culture Working Group meeting to be held in Khajuraho, Madhya Pradesh from February 22 to 25 will be the _____ and _____ of cultural heritage.

- a) vandalization

- b) demarcation
- c) architecting
- d) conservation
- e) discontinuation
- f) restoration
- A. a-c
- B. b-e
- C. d-f
- D. c-b
- E. f-a

5. Briefing newsmen after the Cabinet meeting, Information and Broadcasting Minister Anurag Thakur said the programme _____ improving the quality of life of people living in the _____ border villages.

- a) emphasizes
- b) envisages
- c) unidentified
- d) innocuous
- e) identified
- f) Unctuous
- A. a-c
- B. b-e
- C. d-f
- D. c-b
- E. f-a

Directions (6-10): In each of the questions given below two sentences are there, three words are highlighted in bold in each. These three words may or may not be in their correct position. You are required to interchange the words in order to

make the sentence grammatically and contextually correct. If the sentence is correct as it is, select 'E' as your option.

6. Declaring that the era when progress was **justice (a)** with Westernisation was over, S Jaishankar observed that many languages, including Hindi, and traditions that were **suppressed (b)** during the **colonial (c)** era are once again finding voice at the global stage.

S Jaishankar was of the view that the world must recognise that globalization did not mean **uniformity (d)**. In fact, it was only by understanding and accepting the **diversity (e)** of the world that one could do full **equate (f)**.

- A. a-d
- B. b-e
- C. c-f
- D. a-f
- E. No swapping required

7. The programme conceived by Home & Cooperation Minister Amit Shah will provide farmer members with **requisite (a)** forward and backward **linkages (b)** to market their produce, **enhance (c)** their income, obtain credit facilities and other services at village level.

In events like the World Hindi Conference, it is **natural (d)** that our focus should be on various **aspects (e)** of the Hindi language, its global use, and its **dissemination. (f)**

- A. a-d
- B. b-e
- C. c-f

- D. a-f
- E. No swapping required

8. PM Modi tweeted, "Remembering our **valorous (a)** heroes who we lost on this day in Pulwama. We will never forget their **ghastly (b)** sacrifice. Their courage **motivates (c)** us to build a strong and developed India."

Amit Shah tweeted, "I pay **homage (d)** to the brave soldiers who laid down their lives in the **supreme (e)** terror attack in Pulwama on this day in the year 2019. Their valour and **indomitable (f)** courage will always remain an inspiration in the fight against terrorism."

- A. a-d
- B. b-e
- C. c-f
- D. a-f
- E. No swapping required

9. The goal of the cheetah introduction project in India is to establish a **viable (a)** cheetah' **metapopulation (b)** in India that allows the cheetahs to perform their functional role as top **intensively (c)**.

Post arrival in India, all 12 cheetahs will be housed in specially created **enclosures (d)** at Kuno National Park for completing the **mandatory (e)** quarantine period and the animals will be **predators (f)** monitored.

- A. a-d

- B. b-e
- C. c-f
- D. a-f
- E. No swapping required

10. A former employee of a cooperative sector bank was sent to jail for two years in an Rs 1.15 crore **empowerment (a) perpetrated (b)** by the **convict (c)** eight years back in Odisha's Angul district.

In her last full-fledged Budget before the General Elections next year, Finance Minister Nirmala Sitharaman is expected to balance objectives of fiscal consolidation and **fraud (d)** of consumers to **spur (e)** spending for a **vibrant (f)** domestic economy.

- A. a-d
- B. b-e
- C. c-f
- D. a-f
- E. No swapping required

Directions (11-15): A passage has been given below with some words highlighted in it followed by five questions. These words may or may not be contextually correct. You are required to read the passage carefully and replace the contextually incorrect word with the correct one in order to make the passage meaningful.

The Odisha model of **absconding (a)** malaria has been **primitively (b)** globally by the World Health

Organization as the state is ranked two in the Country in 2021 for its efforts towards the elimination of Tuberculosis. The model resulted in the sharpest decline in the vector-borne disease.

Odisha has made a **discovery (c)** leap with a 39-point decline by reducing IMR which is the highest point decline in the country. Besides, the state has secured 1st rank among all the states in full immunization coverage with 90.5 per cent coverage achievement.

In its **extraneous (d)** to ensure zero out-of-pocket expenditure and provide universal health coverage, Odisha is the first and only State in the country to **mundane (e)** free treatment for all persons, in all public health facilities. The free services include free drugs, diagnostics, OPD, IPD, surgery, ICU, etc, in all government healthcare facilities, from Primary Health Centers to Medical College Hospitals.

11. Which of the following will replace a?

- A. combating
- B. cohering
- C. prompting
- D. hindering
- E. None of the above

12. Which of the following will replace b?

- A. endured
- B. acknowledged
- C. intrusive
- D. demarcated
- E. None of the above

13. Which of the following will replace c?

- A. invention
- B. theory
- C. quantum
- D. jinx
- E. None of the above

14. Which of the following will replace d?

- A. estranged
- B. perpetual
- C. tranquil
- D. endeavor
- E. None of the above

15. Which of the following will replace e?

- A. prominently
- B. precarious
- C. inundated
- D. mandate
- E. None of the above

Directions (16-20): In each of the following questions below a sentence has been divided into five parts, one part which is highlighted in bold is in its correct position, remaining are in jumbled form. You are required to rearrange these parts in order to make the sentence contextually meaningful.

16. Air India's deal to buy 250 aircraft from France's Airbus (a)/ Prime Minister Narendra Modi described (b)/ as historic and expressed confidence that (c)/ global market in the aviation

sector in coming years (d)/ India will emerge as the third-largest (e).

- A. edcab
- B. edcba
- C. baced
- D. edcba
- E. No rearrangement required

17. Out of more than 19,000 MoUs signed by (a) /the Uttar Pradesh government headed by Chief Minister Yogi Adityanath/ through (b)/ more than 9,000 belong to,(c) / the recently concluded Uttar Pradesh Global Investors' Summit, (d) /the **Micro, Small, and Medium Enterprises (MSME) sector** (e).

- A. cabde
- B. acbde
- C. abdce
- D. adbce
- E. No rearrangement required

18. India is on a mission to expand its (a) /global engagement taking advantage of its (b)/ excellent manufacturing experience, high-quality talent (c)/ and cutting-edge advanced technology attainments (d)/, **President Droupadi Murmu** declared on Thursday (e).

- A. bacde
- B. abdce
- C. bacde
- D. bdace

E. No rearrangement required

19. Underlining the government's efforts (a) / to promote tribal products, Prime Minister Narendra Modi (b) / said that the Centre is working continuously (c) / for products made by Adivasis should increase (d) / to ensure that the demand (e).

A. abcde

B. adbce

C. acbed

D. abced

E. No rearrangement required

20. (a) it has saved from bankruptcy / opened up on the status (b) / of the social media platform saying (c) / Owner of Twitter Elon Musk (d) /and is now in for a breakeven (e).

A. abced

B. abecd

C. dbace

D. dbcea

E. No rearrangement required

Answer Key with Explanation

1. Answer: B

Here, counter the doctored narrative will be used as words as counter means to face and doctored narrative means false narrative and here doctored narrative is being talked in the context of some rowdy elements using doctored narrative to run down India's growth. So, option B is the correct answer.

Dissipate- to slowly become less until it disappears; to make something weaker until it disappears

intercepted- to stop or catch somebody/something that is moving from one place to another

2. Answer: A

Here, praised in the first blank and preserving in second will be used as both fits best from the all given options. UP chief minister praised the nationalist fervour meaning very strong, in preserving the unity and integration of India. So, option A is the correct answer.

Burgeoning means to increase rapidly.

Insinuate means to suggest something unpleasant in an indirect way.

3. Answer: A

Here, from the options replica and insignia fits best in the blank. Replica means duplicate and insignia means a distinguishing badge or emblem of military rank. So, option A is the correct answer.

Arraign means to call or bring someone before a court to answer a criminal charge.

Fanaticism is an extreme and often unquestioning enthusiasm, devotion, or zeal for something, such as a religion, political stance, or cause.

4. Answer: C

Here, conservation and restoration will be used in first and second blank in order to make sentence grammatically and contextually correct. Conservation and restoration of cultural heritage is being talked about in the question, not their vandalization. So, option C is the correct answer.

Demarcation means a border or line that separates two things, such as types of work, groups of people or areas of land.

Vandalization- the act of deliberately destroying or damaging public or private property.

5. Answer: B

Here, first blank will be filled with envisages which means to think of something as possible in the future or to imagine and here programme launched also gives future possibilities and second blank will be filled with identified as quality cannot be

improved of unidentified villages but it can be improved for identified villages. So, option B is the correct answer.

Innocuous means not meant to cause harm or upset somebody

Unctuous means excessively flattering

6. Answer: D

Here, **equate** and **justice** requires swapping to make sentences contextually correct as progress can equate justice cannot and full equate cannot be done but justice can be. So, option B is the correct answer.

7. Answer: E

Here, no swapping is required. So, option E is the correct answer.

8. Answer: B

Here, **ghastly** and **supreme** need swapping as ghastly means extremely unpleasant or bad and supreme means above all and here ghastly should be used before terror attack as it fits there and supreme before sacrifice. So, option B is the correct answer.

9. Answer: C

Here, **predators** and **intensively** should be swapped in order to make sentence contextually correct as predators monitored is not correct and same is not correct as top intensively and both should be swapped to make sentence meaningfully correct. So, option C is the correct answer.

10. Answer: A

Here, fraud and empowerment need swapping as 1.15 crore rs empowerment by convict cannot be done but fraud can be and same to spur spending of consumers fraud by government cannot be done but empowerment can be. So, option A is the correct answer.

11. Answer: A

Here, **combating** should be used in place of **absconding** as combating malaria means to fight it, whereas absconding means to run away from something which is contextless here. So, option A is the correct answer.

Cohering means form a unified whole.

Hindering means to make it more difficult for somebody/something to do something.

12. Answer: B

Here, primitively should be replaced with acknowledged as there is a need to accept or admit that something has happened and here

acknowledged means the same. Primitively means very simple and not developed. So, option B is the correct answer.

Intrusive means invasive

Demarcated means divided

13. Answer: C

Exp- Here, discovery should be replaced with quantum as it means quantity and here the same is needed. Discovery and invention both cannot be used as both are contextless here. So, option C is the correct answer.

14. Answer: D

Here, extraneous is contextless as it means irrelevant and here word related to try hard is needed and endeavor means the same. So, option D is the correct answer.

Estranged means no longer friendly

Tranquil means quiet and peaceful

15. Answer: D

Here, mundane which means ordinary should be replaced with mandate means to make necessary and here free treatment for all people is made necessary by the Odisha government. So, option D is the correct answer.

Inundated means to give or send somebody so many things that he cannot deal with

Precarious means not safe or certain; dangerous

16. Answer: C

Here, first sentence after rearrangement will be **b** as it gives introduction of the sentence starting with PM modi's description of Air India's deal followed by **a** which then **c** which is fixed, followed by **e** which gives future prediction as result of this deal and finally ends with **d**. So, **option C** is the correct answer. The correct rearrangement of the sentence is- **baced**.

17. Answer: C

Here, first sentence after rearrangement will be **a** which gives introduction of the sentence giving information about MOU's signed followed by **b** which gives information about who signed it and then **d** gives information about where it was signed and then comes **c** which gives information about types of MOU's and finally ends with **e** which is fixed. So, **option C** is the correct answer. The correct rearrangement of the sentence is- **abdce**.

18. Answer: E

Here, all are sequentially at the correct place and contextually correct. So, **option E** is the correct answer.

19. Answer: D

Here, first part is fixed so after rearrangement **a** will be first part, followed by **b** which gives the information about efforts being made by PM for tribal peoples followed by **c**, then followed by **e** which gives further information about the needs of adivasis being fulfilled by raising demands of their products and finally ends with **d**.

So, **option D** is the correct answer. The correct rearrangement of the sentence is- **abcd**.

20. Answer: D

Here, first sentence after rearrangement will be **d** giving introduction of Elon musk followed by **b** which is fixed, followed by **c** which connects contextually then followed by **a** which gives information about how musk saved twitter from bankruptcy then finally ends with explaining about its current condition. So, **option D** is the correct answer. The correct rearrangement of the sentence is- **dbcea**.

Score Booster

Directions (1-8): Read the following passage and answer the questions given below. Some words are highlighted to help you answer the questions.

The Consultative Committee of the Ministry of Water Resources, River Development and Ganga Rejuvenation met under the Chairmanship of Union Minister Shri Nitin Gadkari in New Delhi yesterday, to **deliberate** upon the urgent need for participatory ground water management in the country. Ministers of State Shri Arjun Ram Meghwal and Dr Satya Pal Singh also attended the meeting.

Speaking on the occasion Shri Nitin Gadkari said that water shortage is one of the biggest problems that the country faces today. A big reason for this problem is the poor management of available resources, he said.

On one hand we over-exploit our rivers, lakes, groundwater and other sources of water, but on the other hand we allow colossal amounts to run off into the sea unutilized. The Minister emphasized the role of participatory water management in addressing the problem of water scarcity in the country. He said, to address this problem, the Government, the civil society and the local level communities must all work together to find ways to preserve, protect and augment the available water resource. Shri Gadkari pointed to examples from states like Maharashtra and Gujarat where such

participatory management of water have helped turn water – starved, barren farmlands into fields producing multiple crops in a year.

Through a presentation by Member, Central Ground Water Board informed the Committee that ground water in India provides for about 60 % of the country's irrigation needs, 85 % of rural drinking water requirements and 50 % of urban water needs. As per 2013 data, 4 percent of Ground Water assessment units in the country are in a critical state and 10 percent in a semi critical state due to over-exploitation and contamination. The reasons for this over exploitation and contamination include increasing demand, change in cropping pattern, **scanty** rainfall in arid and semi-arid regions, flat rate/ free subsidized electricity for extracting ground water in certain states, rapid pace of urbanization haphazard sewage and waste disposal.

The Central Ground Water Board has identified various key issues regarding ground water management. It has been established that long term sustainability of water resources can be assured only through holistic management programmes that take care of both demand side and supply side management. Supply side management focuses on management of aquifer systems and recharge of ground water resources while demand side management involves

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efforts at arresting decline in ground water levels by regulating the withdrawals and increasing water use efficiency. Demand side management is thus dependent on community participation. It requires the community to make efforts at ensuring that water is extracted in a sustainable manner, the cropping pattern is suited to the area, drip / sprinkler irrigation is encouraged, and people of the community resort to water budgeting.

The Committee agreed upon the need to promote and encourage participatory management as a solution to long term, sustainable development of ground water resources in the country. Participatory management recognizes ground water as a Common Property Resource. When this management method is employed to manage ground water the local communities themselves regulate the extraction and use of water, and are also _____ in augmenting and recharging the resource. Participatory management of ground water have resulted in many success stories in the states of Maharashtra, Gujarat, Andhra Pradesh, Tamil Nadu to name a few.

The Government has taken many initiatives to encourage participatory ground water management by facilitating an enabling environment, creating a knowledge base, sensitizing communities and building capacities. The proposed Atal Bhujal Yojana is also an

effort in this direction. It is Rs.6000crore Central scheme that aims at sustainable ground water management with emphasis on demand side interventions with community participation in 78 districts covering states of Gujarat, Maharashtra, Haryana, Karnataka, Rajasthan, Uttar Pradesh and Madhya Pradesh.

1. What are the reasons behind exploitation and contamination of groundwater in the country?

- a) Due to the suffice rainfall in terrified areas of the country leads to over exploitation.
- b) Change in climate pattern and increase in crop demand leads to contamination of groundwater.
- c) Rapid pace of urbanization haphazard sewage and waste disposal.
- d) Both B and C.
- e) All A, B and C.

2. According to the passage, what is the biggest problem that the country is facing today?

- a) India is facing high inflation due to the pandemic and the ongoing Russia Ukraine war.
- b) India is struggling to eradicate the contaminated water issue prevails in the rural areas.
- c) Water shortage is considered as one of the biggest problems in our country.
- d) Both B and C.
- e) None of these.

3. Which of the following statement / statements is / are false to the given context?

- a) We allow colossal amount of water to enter into the sea.
- b) Ground water in India provides 60% of country's irrigation needs, 85% urban water needs, 50% rural drinking water.
- c) Demand side management is completely dependent on communities' participation.
- d) All of these.
- e) None of these.

4. According to the passage, which of the following statement / statements is / are true to the context?

- a) Atal Bhujal Yojana is a scheme that mainly focuses on sustainable fresh water management.
- b) Supply side management involves efforts at arresting decline in ground water levels by regulating the withdrawals and decreasing water use efficiency.
- c) Demand side management focuses on management of aquifer systems and recharge of ground water resources.
- d) All of these.
- e) None of these.

5. According to the context, what is true regarding the participatory management?

- a) If it is employed, it will take care of ground water level in each country.

- b) It has shown success stories in almost four states include Maharashtra, Gujarat, Arunachal Pradesh and Tamilnadu.
- c) The local bodies themselves will regulate and extract the use of water.
- d) Both B and C.
- e) Both A and B.

6. Choose the most appropriate word from the following options to fill the blank with proper meaning.

- a) Cautious
- b) Proactive
- c) Egregious
- d) Scandalous
- e) None of these.

7. Choose the word that is most SIMILAR to the highlighted word in the passage.

SCANTY

- a) Exiguous
- b) Adequate
- c) Profuse
- d) Bounteous
- e) None of these.

8. Choose the word that is most OPPOSITE to the highlighted word in the passage.

DELIBERATE

- a) Purposive
- b) Fortuitous
- c) Premeditated

- d) Boggled
- e) All of these.

Directions (09-13): In each of the following questions, a sentence has been divided into four parts; it may or may not have an error. You are required to choose the option which is grammatically or contextually incorrect. If the sentence is grammatically correct, choose option E i.e., No error.

9. The star parties are usually conducted (A)/ in the winter months between December to(B)/ March as the skies are clearer during these (C)/ months which is very important for stargazing (D)/ No error (E).

- a) A
- b) B
- c) C
- d) D
- e) E

10. A Dark sky reserve is a designation given (A)/ to a place that have policies in place (B)/ to ensure that a tract of land or region (C)/ has minimal artificial light interference (D)/ No error (E).

- a) A
- b) B
- c) C
- d) D
- e) E

11. One of the companies whose projects are (A)/ yet to take off said that due to the COVID-19 lockdown (B)/, firms had switched to work from home mode (C)/, and that was why they were taking time to invest (D)/.

- a) A
- b) B
- c) C
- d) D
- e) E

12. However, hotel and restaurant owners in the (A)/ district stated that they were extremely relieved (B)/ that 2022 have witnessed such a significant (C)/ upturn in fortunes for the tourism sector (D)/ No error (E).

- a) A
- b) B
- c) C
- d) D
- e) E

13. Real estate and business services saw the (A)/ slow expansion in the new orders even as input cost inflation (B)/ accelerated with firms mentioning wage pressures and (C)/ high prices for energy, food and transportation (D)/ No error (E).

- a) A
- b) B
- c) C
- d) D

e) E

Answer Key with Explanation

1. Answer: D

The question can be answered through the third passage. Option A is incorrect, Over-exploitation is due to lack of rainfall in arid region (less precipitated areas), but in option it is mentioned as suffice (enough; adequate) both are contradicted. Only options B and C are discussed in the passage. Hence, option D is the correct answer.

2. Answer: C

Option A is completely irrelevant to the passage and it can be eliminated. Option B is incorrect because the passage is all about the ground water shortage and being over exploited. Also the issue prevails all over the country not particularly in rural areas. Only option C is mentioned in the second passage. Therefore, option C is the correct answer.

3. Answer: B

Only option B is incorrect. According to the passage it is mentioned as “the Committee that ground water in India provides for about 60 % of the country’s irrigation needs, 85 % of rural drinking water requirements and 50 % of urban water needs”. But in option the percentage value of both rural drinking water and urban water

needs has been incorrectly given. Only option B is incorrect. Hence, option B is the correct answer.

4. Answer: E

All the given options are incorrect. Atal Bhujal Yojana is a scheme mainly focuses on ground water management not fresh water management. Hence, it is incorrect. Both options B and C are contradicted to the given passage, hence incorrect. Therefore, option E is the correct answer.

5. Answer: C

Options A and B are incorrect, the passage talks about the issue of the country (India) not all the country. In option B, the four states are Maharashtra, Gujarat, Andhra Pradesh and Tamilnadu. Hence, it is incorrect. Therefore, option C is the correct answer.

6. Answer: B

Proactive - controlling a situation by making things happen rather than waiting for things to happen and then reacting to them.

Cautious - taking great care to avoid possible danger or problems.

Egregious - outstandingly bad; shocking.

Scandalous - very shocking or wrong.

Here, the phrases after the blank indicates a positive tone so the blank must be filled by a positive word. According to this logic, option C and D can be eliminated since they are negative words. The word “cautious” would be irrelevant to the blank. Therefore, option B is the correct answer.

7. Answer: A

Scanty - too small in size or amount.

Exiguous - very small in size or amount.

Adequate - enough for what you need.

Bounteous - giving or disposed to give freely.

Profuse - given or produced in great quantity.

Here, the word “exiguous” is synonym for the highlighted word “scanty”. Hence, option A is the correct answer.

8. Answer: B

Deliberate - done on purpose; planned.

Purposive - having or done with a purpose.

Premeditated - (used about a crime) planned in advance.

Fortuitous - happening by chance rather than intention.

Boggled - to be unable to imagine something; to be impossible to imagine or believe.

Here, the word “fortuitous” is antonym for the highlighted word “deliberate”. Hence, option B is the correct answer.

9. Answer: B

The error lies in part B. Generally, “between” should be followed by “and”. The word “to” will be replaced by “and”. Hence, option b is the correct answer.

10. Answer: B

The error lies in part B. Here, the word “place” denotes a sky reserve and it is singular, so the word “have” should be replaced by “has”. Hence, option b is the correct answer.

11. Answer: A

The error lies in part A. In the second half of the sentence, past perfect tense (had switched) is used. Generally, past perfect tense expresses an action in the past before another action in the past. So, the word “are” has to be replaced by “were”. Part C and D happens first then it is followed by part A and B. Because of companies work from home strategy, firms are taking more time to invest. Hence, option a is the correct answer.

12. Answer: C

The error lies in part C. Generally, if a particular year is mentioned, singular verb has to be used. The word “have” should be replaced by “has”. Hence, option c is the correct answer.

13. Answer: B

The error lies in part B. The word “the” should be followed by a superlative degree according to the

sentence. The word "slow" will be replaced by "slowest". Hence, option b is the correct answer.

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IBPS PO Prelims Memory Based Paper held on 15th October Slot 2

Directions (1-9): Read the given passage carefully and choose the most appropriate answer for each question as the answer.

When the Conservatives formed a minority government a little over a year ago, green issues were not a priority. But, ever since, as voters have grown increasingly **keen** on doing something about the environment, the Tories have been scrambling for a compelling policy. It is a difficult trick to pull off. Their core supporters, and industry in the energy-rich western provinces, are the least convinced of the need for immediate steps to tackle climate change.

The Tories' first effort, which set modest and distant targets, was **shelved** after criticism from opposition politicians and environmentalists. But a new plan, announced this week, may have legs. It sets a goal of cutting emissions of greenhouse gases by 20%, by 2020, and air pollutants from industry by half, by 2015. It also lays the groundwork for emissions trading in Canada, and seeks to reverse-within three years-the steady upward climb of gases linked to global warming. John Baird, the environment minister, reckons the new Canadian policy is "one of the most aggressive...in the world." That is hyperbole. Last

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year Canada produced an estimated 781 mega tonnes of greenhouse gases, and it is certain to miss its Kyoto target of cutting them to 563 mega tonnes by 2012. Even if the new plan manages to hit its own targets, Canada will be emitting 630 mega tonnes a year by 2020. Even that may be too optimistic. The new limits for industry are based on the intensity of emissions per unit of production, rather than a hard cap on total emissions. That leaves open the possibility, if production grows enough, that total emissions could yet go up. There are a lot of blanks in the policy, and more than a whiff of wishful thinking, for example on what other, local, programmes may achieve. Stéphane Dion, leader of the opposition Liberals, calls the government plan "a scam."

Yet the Liberals themselves are in a shaky position on this issue. They ruled for nearly 13 years, signed the Kyoto protocol, but did almost nothing to meet its requirements. Mr Baird is venturing where the previous government dared not: setting mandatory, rather than voluntary, targets and warning voters they could pay as much as C\$8 billion (\$7.2 billion, or 0.5% of GDP) a year, for example for pricier electricity and home appliances. A technology fund, to which companies can contribute in lieu of cutting emissions, has the virtue of creating a pool of money to encourage greener processes. It and a plan to provide credits to early movers, who have already cleaned up their act, should help keep industry sweet. Initial corporate grumbles rather

than outrage suggest this is the case. The three federal opposition parties—the Liberals, Bloc Québécois and New Democratic Party—may yet try to scupper the government's plan, sensing a chance to put the Conservatives, at best reluctant greens, on the spot, all three opposition leaders are vigorously waving eco-banners. A fourth—the leader of the Green Party—is sniping from the wings. The opposition parties are backing rival legislation that calls for meeting the Kyoto commitments, something Mr Baird says would throw the economy into deep recession, not least because there is little time remaining. His plan, he says, won't have such dire consequences.

This posturing will continue as long as voters keep telling pollsters that tackling climate change is now an urgent matter. However, public opinion is fickle. The last time Canadians were this concerned about the environment was in the late 1980s following disasters at Bhopal in India, Chernobyl in Ukraine, and the oil slick from the Exxon Valdez in Prince William Sound, in Alaska. That concern was short-lived, says Stephen Hazell of the Sierra Club of Canada, a green group. Others contend that the issue is here to stay, pointing to the growing chorus of scientists, economists, and even corporate leaders who demand action. One pollster, Frank Graves, suggests that Canadians now connect the environment to a broader "security ethic" that includes terrorism, global pandemics and organised crime—threats which resonate all too strongly with ageing, fearful baby boomers.

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1. When the author says that "But a new plan, announced this week, may have legs, he means...

A. That the new plan may run away with opposition before it can be successfully implemented.

B. That the new plan might be implemented in structured phases.

C. That the way the new plan is implemented, it might go its own way rather than where the government wants it to go.

D. That this plan, as opposed to its predecessor, might work.

E. That the plan may have a much bigger domain than originally imagined.

2. What according to the author is 'hyperbole'?

A. The conservatives pulling off a compelling environmental policy.

B. The huge targets the current policy aims to achieve.

C. The claim that the government can reverse the emissions trading in Canada.

D. The inability of the government to meet the targets of Kyoto Protocol.

E. The fact that Canada produced 781 mega tonnes of greenhouse gases last year.

3. Which of the following is a unique and progressive characteristic of the new environmental policy?

A. The aim to cut industry emissions to half by 2015.

B. The targets, which are more realistic than those set by the Kyoto Protocol.

C. New limits for the industry that are based on emissions per unit of production.

D. A technology fund that industries may contribute to in lieu of cutting emissions.

E. Prevention of economic regression.

4. Which of the following can be inferred as an indirect consequence of implementation of the new environmental policy?

A. A rise in the rates of indirect taxes, making some essential commodities dearer.

B. A fall of 0.5% in the estimated GDP.

C. Economic repercussions for not being able to meet the Kyoto guidelines.

D. The revelation of a scam, as alleged by leader of opposition Stephane Dion.

E. A peak in industrial production, so that the emission stay within limits.

5. The author will surely agree with which of the following statements?

A. The public opinion is fickle; Democracy has failed to empower the people.

B. It is only because of the rising environmental concern among voters that the ruling conservative party is rolling out a new environmental policy.

C. The corporates are not concerned with environment, they just want their profit.

D. The new government under the conservatives is weak as compared to the liberals, who were more assertive and reform oriented.

E. The new Canadian environmental policy is one of the most aggressive in the world.

6. By saying "The last time Canadians were this concerned about the environment was in the late 1980s..... the author wishes to...

A. Show that the Canadians are concerned about what environmental accidents are happening all over the globe.

B. Prove that people are increasingly realizing the need for a progressive environmental policy.

C. Invoke a satire to support his argument that public opinion changes rapidly and the environmental concern is short lived.

D. Show that opinion polls conducted by pollsters are not always reliable and correct.

E. Show that the common public has joined forces with the environmentalists and scientists in ushering a new eco-friendly era.

7. By referring to 'ageing fearful baby boomers; the author is referring to...

A. People who are scared of empty threats.

B. The opposition parties that are supporting a rival legislation that will force the government to meet the Kyoto guidelines.

C. The public in general.

D. The growing chorus of scientists, environmentalists and corporates who are vying for a more eco-friendly government.

E. The generation of people, born in relative comfort but now living in fear of global threats like terrorism.

8. Choose the word that is same in meaning as the word '*keen*.'

A. Agog

B. Eager

C. Ignorant

D. Devoted

E. Zealous

9. Which of the given words is the correct antonym to '*shelved*' from the passage?

A. Abandoned

B. Dropped

C. Implemented

D. Axed

E. Ditched

Directions (10-14): The given paragraph carries blanks that can be filled with the words given from the options in each question. You must read the same carefully and choose the most appropriate option as your answer.

The degree versus skill debate is never-ending. Not only in India but all over the world the same debate keeps popping. Education is of _____ importance; no doubt about it but it doesn't guarantee a job in the chosen field in most of the cases. Whatever is learnt while _____ a degree becomes useless if one doesn't learn the _____ of applying skill to make use of the theory into practical execution. There is an _____ need of skilled workers in our country. Millions of youngsters get added to the workforce

every year but hardly a fraction of them actually manage to secure a job. Sometimes it has been observed that the university curriculum remains outdated and irrelevant as per the current industry standards most of which is focused on simply finishing the curriculum rather than focusing on learning. Ideally, higher education should teach you essential skills in your academic field of interest and it should teach you how to think and how to _____ problems.

10. Which of the given options would come in the first blank of the given paragraph?

- A. Outstanding
- B. Athletic
- C. Firm
- D. Paramount
- E. Trivial

11. Choose the word that correctly fills the second blank given above.

- A. Holding
- B. Completing
- C. Pursuing
- D. Stalking
- E. None

12. Which of the given options would come in the third blank from the given options?

- A. Acumen
- B. Knock
- C. Dexterity
- D. Agility
- E. Intelligence

13. Which of the given words would best complete the fourth blank given below?

- A. Emergent
- B. Overpowering
- C. Encouraging
- D. Bourgeoning
- E. Overthrowing

14. Which of the given words would best complete the fifth blank?

- A. Respond
- B. Approach
- C. Reach
- D. Strive
- E. None of these

Directions (15-18): The sentences given below have been divided into parts which have not been placed in their correct order. You must read the same carefully and choose the option that provides the best rearrangement as your answer.

15. punctuating the conversation (A)/ would chat around the snooker (B)/ taps of the coloured balls (C)/ table, with the sharp (D)/ Clutching cue sticks, they (E).

- A. ADEBC
- B. EBDCA
- C. DECBA
- D. BDEAC
- E. No rearrangement needed

16. Facebook, which has many senior (A)/ With a passion to fulfill a childhood (B)/ joined The Himalayan Club on (C)/ dream to visit Everest, Rita (D)/ citizens among its nine lakh members (E).

- A. ABEDC
- B. BDCAE
- C. DCBAE
- D. CEBDA
- E. No rearrangement needed

17. that require the body to balance (A)/ to lift themselves, turn, bend, (B)/ and stabilize in Yogic poses in air (C)/ Practitioners use the silk as prop (D)/ swing and sway in motions (E).

- A. DBEAC
- B. EBDAC
- C. ACDEB
- D. CBEAD
- E. No rearrangement needed

18. Beauty and power are a heady (A)/ mix but celebrities often pay a (B)/ price for their popularity. (C)/ It is not easy for anybody to (D)/ remain unfazed when fun is poked at them (E).

- A. ABEDC
- B. EDCAB
- C. BDECA
- D. ABDCE
- E. No rearrangement needed

Directions (19-23): The given sentences carry words that have been highlighted. These words

might not be in their correct positions and need to be interchanged. Choose the option that carries the pair of words that needs to be changed.

19. When individuals come to him for a (A) mental uplift, he (B) elicit in long conversations to (C) indulges information on any past or present (D) cosmetic health condition.

- A. A-B, C-D
- B. A-D, B-C
- C. B-D
- D. A-C
- E. No swapping needed

20. Yamini says, though she (A) pandemic writing the book before the (B) started, they (C) release post-lockdown to (D) waited it so that the book could reach more children.

- A. A-D, B-C
- B. B-D only
- C. A-B, C-D
- D. B-C only
- E. No swapping needed

21. Messi is thrilling his (A) legion of fans along the way, with his (B) swivel and driving run to set up the third goal for Álvarez in the 69th minute (C) epitomizing his confidence and (D) swagger.

- A. A-B
- B. B-D, A-C
- C. A-D
- D. B-C, A-D
- E. No swapping needed

22. At 6,240 metres above sea level, he (A) displays a photo of his father, Srinivas Rao Madasu, an Arjuna Award- (B) winning para-athlete who (C) battling away in March after (D) passed cancer.

- A. A-C
- B. B-D
- C. A-B
- D. C-D
- E. No swapping needed

23. She is talking about (A) talking the Kalaripayattu (B) friendship but she could just as well be (C) learning about her (D) techniques with Gladston — it took them over four years to fall in love.

- A. A-C, B-D
- B. A-B, C-D
- C. C-B, A-D
- D. B-D
- E. No swapping needed

Directions (24-27): The following questions carry sentences that have been divided into five parts of which one part might be erroneous. You must read the same and choose the part with an error as your answer.

24.

- A. Along with Zoom sessions with
- B. workout buddies and Facebook lives
- C. with trainers, app-based fitness
- D. programmes also became popular.
- E. No Error

25.

- A. We have a small hand-held
- B. machine, with a capacity of
- C. 300 ml used for fumigation,
- D. which we rent out to
- E. people we know on person.

26.

- A. Expecting to cover the distance of 300 km
- B. in 10 days, Saichand hopes his gesture will
- C. create awareness and highlight the significance
- D. role Sriramulu played in his fight for a
- E. separate State for the Telugus.

27.

- A. There has been little respite on other
- B. household budget items, including essential kitchen
- C. supplies such as cereals, milk and spices,
- D. which inflation rates accelerated to 13%,
- E. 8.2% and 19.5%, respectively.

Directions (28-30): The given questions carry sentences in which a blank has been given. These blanks can be filled with words from the options. Choose the most appropriate option for each question respectively.

28. The need for criminal laws to assist wildlife conservation has remained unchallenged since its _____.

- A. Generic
- B. Conception

- C. Fancy
- D. Hypothesis
- E. Eternity

29. India is on its way to become a global _____ for technology.

- A. Culture
- B. Hub
- C. Standard
- D. Epitome

- E. Paragon

30. About 90% of married Indian couples feel that excessive usage of smartphones is _____ their relationship.

- A. Elevating
- B. Improving
- C. Hurting
- D. Regenerated
- E. Degenerated

Answer Key with Explanation

1. Answer: D

The statement comes directly after the author mentions that the preceding policy was shelved. There is no indication in the passage about how the policy will work, but there is a subtle allusion, underpinned by the statement that the policy might have legs, meaning the policy might actually work. This is clearly mentioned in the fourth option.

2. Answer: B

Hyperbole literally means exaggeration. In the second paragraph, the author says that the policy makes fall claims. This is the hyperbole the author is referring to. Both options (b) and (c) are correct, but (b) is more appropriate as it makes a general statement about the targets the policy aims to achieve.

3. Answer: D

The author has ridiculed all aspects of the new policy, except for option (d), and he has pointed out the shortcomings in each of them. Only the characteristic mentioned in the fourth option is recognized by the author as unique and acceptable.

4. Answer: A

The author clearly mentions in the fifth para that the voters could pay close to \$7.5 bn for costlier power and domestic appliances. This could only mean a rise in the taxes and prices, hence making these commodities dearer. The rest of the options can be rejected easily.

5. Answer: B

The first line of the last paragraph is clear indication of the fact that it is the voters who finally decide what the government does, and since the people are becoming more concerned

about the environment, the government has no choice but to bring out an environmental policy.

6. Answer: C

In the preceding line, the author says that the public opinion is fickle, i.e. changeable. Thus, he is trying to ridicule the concern for the environment as a fad by mentioning the above stated line.

7. Answer: E

Referring to the lines from the last paragraph given below, we can eliminate the options to help identify our correct answer:

One pollster, Frank Graves, suggests that Canadians now *connect* the *environment to* a broader "*security ethic*" that includes terrorism, global pandemics and organised crime-threats which resonate all too strongly with ageing, fearful baby boomers.

Thus, all options except (e) can be eliminated.

8. Answer: B

The word **keen** means very interested in something.

From the options, only the word **eager** is close to the desired meaning.

Agog means very excited while waiting to hear something. **Ignorant** means not knowing about something. **Devoted** means completely loyal to somebody/something. **Zealous** means using great energy and enthusiasm.

This makes option (b) the most appropriate answer.

9. Answer: C

The word **shelved** means to keep aside or delay. The opposite of the same should be some word that would mean carried out. So, the word **implemented** from the options can be taken as correct.

The other options are all synonyms of the given word.

So, the correct answer is option (c).

10. Answer: D

The sentence with the blank talks about Education being primarily important. So, we need such an option as our answer. The word **outstanding** could be considered but the word **paramount** is better than the same.

Athletic means having a fit, strong, and healthy body. **Firm** means strong. **Trivial** means unimportant.

So, the correct word that can be used as a synonym is (d).

11. Answer: C

The given blank takes a word that means undertaking or trying to achieve something or continuing to do something over a period of time. In such sentences that talk about education etc, the word **pursuing** fits the best.

So, the best would be to mark option (c) as the answer.

12. Answer: A

The word **acumen** means the expertise or the brains required to choose wisely or take correct decisions.

The word **knock** means to hit. The word **knack** in its place could have still been correct. **Dexterity** means skill at doing things, especially with your hands. **Agility** means to be quick in ones actions.

So, the correct answer is option (a).

13. Answer: B

The need for skilled workers has been growing strongly. This means that we need a word that would mean the same.

Emergent → in the process of coming into being or becoming prominent.

Overpowering → very strong

Bourgeoning → ever increasing

Overthrowing → to remove from power

This tells us that the second option is the best answer.

14. Answer: B

The best usage of the above would be 'how to approach problems'

So, the other words can be eliminated either contextually or grammatically.

The correct answer hence, is option (b).

15. Answer: B

The above sentence after rearrangement would look like:

Clutching cue sticks, they would chat around the snooker table, with the sharp taps of the coloured balls punctuating the conversation.

This makes the second option the most appropriate answer.

16. Answer: C

The above sentence after rearrangement would look like:

With a passion to fulfill a childhood dream to visit Everest, Rita joined The Himalayan Club on Facebook, which has many senior citizens among its nine lakh members.

This makes the third option the most appropriate one.

17. Answer: A

The above sentence after rearrangement would look like:

Practitioners use the silk as prop to lift themselves, turn, bend, swing and sway in motions that require the body to balance and stabilize in Yogic poses in air.

The best would hence be to mark option (a) as the answer.

18. Answer: E

The above sentence after rearrangement would look like:

Beauty and power are a heady mix but celebrities often pay a price for their popularity. It is not easy for anybody to remain unfazed when fun is poked at them.

The correct answer is option (e).

19. Answer: B

The word **mental** should come in place of (D) because 'mental health condition' forms the correct phrase. The word **indulges** should come in (B) which means that all words need to be swapped.

The words in A-D and B-C should be swapped and (b) should be marked the correct answer.

20. Answer: C

'Started writing the book' and 'before the pandemic' are the correct phrases. 'To release it' makes a correct phrase.

This means the words in A-B and C-D should interchange their places.

Therefore, the correct answer is option (c).

21. Answer: E

The best option would be (e) as the sentence is correct as it is and there is no need to interchange any of the words.

22. Answer: D

The phrase 'passed away' should come together which tells us that the words in C and D should be changed. The sentence would become meaningful after that.

So, the correct answer is option (d).

23. Answer: A

The words in A and C need to change as, the word **learning** should come in place of A and **talking** should come before **about**. So, A-C becomes one pair.

The second pair that needs to be interchanged as **Kalaripayattu techniques** would make a correct phrase.

So, the correct answer is option (a).

24. Answer: E

The given sentence needs no improvement and therefore, the correct answer should be option (e).

25. Answer: E

The fifth part of the given sentence carries an error.

Either the word **personally** or the phrase **in person** should be used in its place.

So, the correct answer is option (e).

26. Answer: C

The word **significant** should be used in the given sentence as it is used to define the word **role**.

Significance is a noun which is a misfit in the sentence.

So, the correct answer is option (c).

27. Answer: D

The preposition **which** has wrongly been used in the sentence in the fourth part. In place of the same, **whose** should be used instead.

The mentioned things **whose** inflation rates have accelerated.

Therefore, the correct answer is option (d).

28. Answer: B

The given blank should take the word that means 'beginning' as it intends to say **since its beginning**.

Only the word **conception** fits the context.

The word **generic** means common, something that is used by a large group of people generally.

The words **fancy** and **hypothesis** do not fit the sentence. **Eternity** means forever. It will be wrong to put the same after **its**.

So, the correct answer is option (b).

29. Answer: B

The best option that would fit the blank is **hub**.

The word **epitome** means a perfect example for something. The word **paragon** means a perfect person.

The words **culture** and **standard** do not fit the context of the sentence and can be ruled out.

So, the best would be to go with option (b).

30. Answer: C

The word **elevating** means lifting, taking something up. **Improving** would be out of context because the sentence uses a negative phrase **excessive usage of smartphones**.

The words in (d) and (e) are in the third form and they do not fit grammatically so can be ruled out.

This makes the word **hurting** the most appropriate answer.

IBPS RRB PO Mains Memory Based Paper Held On September-2022

Directions (1-7): Given below are some questions based on the passage. You have to read the passage carefully and answer the given questions accordingly.

Parents of children suffering from Duchenne Muscular Dystrophy (DMD), a fatal genetic disease, gathered at Jantar Mantar, Delhi, on March 24, 2023, to raise awareness about the disease and register their anguish against the government's apathy. The parents and others who joined wore white t-shirts and badges with

"Save Our Sons" written on them, as the disease mostly affects boys. Addressing the devastating effects of the fatal disease and the urgent need for action, the event saw hundreds of wheelchair-bound children diagnosed with the disease and their parents gathered from all over the country. Parents demanded in unison to expedite the process of bringing in experimental treatments like gene therapy and exon skipping to India. Their demands included the creation of an empowered panel of health ministry officials,

representatives from the DMD parents, and the provision of free medications and physiotherapy facilities to all DMD children. The speakers at the event also requested the government to make a separate category within National

Policy for Rare Diseases 2021 (NPRD) for “life-threatening diseases” in order to prioritise help and support for them. Commenting on the role of the government, Dr Sheffali Gulati, head of Pediatric Neurology, at AIIMS, Delhi, said, “The Government can provide financial support to these patients in **procuring** and importing these newer medications. It can also help in easing out the cumbersome process of obtaining requisite approvals from the drug regulatory authorities for the import of these newer drugs.” Gulati also stressed the need for creating Indian innovative models of management in these children, for both curative management as well as supportive care.

DMD is a muscle-wasting disease that first starts with the weakening of leg muscles. The disease, in the form of a defective dystrophin gene (which hinders the production of very vital dystrophin protein), is present since birth. However, the first symptoms manifest between the ages of five and seven, when children find walking difficult due to weakness in the calf muscles. Growing rapidly, soon it engulfs every muscle of the body including the heart and lungs. The result: most children are wheelchair-bound before they reach high school. Most of them don’t live beyond their 20s. The

event took place against the **backdrop** of Prime Minister Narendra Modi highlighting the need for awareness and focusing efforts on research and treatment of the disease in

the 95th edition of “Mann ki Baat”, on November 27, 2022.

1. Which of the following is the synonym of “BACKDROP”?

- A. focus
- B. focal point
- C. center
- D. stage
- E. None of the above

2. Which of the following phrases is not correct as per the passage given above?

- A. Parents demanded in unison to expedite the process of bringing in experimental treatments like gene therapy and exon skipping to India.
- B. Addressing the devastating effects of the fatal disease, the event saw hundreds of wheelchair-bound children diagnosed with the disease and their parents gathered from all over the country.
- C. Growing rapidly, soon it engulfs every muscle of the body including the heart and lungs.
- D. DMD is a muscle-wasting disease that first starts with the weakening of leg muscles.
- E. None of the above

3. Which of the following is the antonym of “PROCURING”?

- A. garnering
- B. grossing
- C. annexing
- D. forfeiting
- E. None of the above

4. Which of the following options doesn't give one of the stages of DMD once diagnosed in the children?

- A. the first symptoms manifest between the ages of five and seven, when children find walking difficult due to weakness in the calf muscles.
- B. Growing rapidly, soon it engulfs every muscle of the body including the heart and lungs.
- C. Most of them don't live beyond their 30s.
- D. The result: most children are wheelchair-bound before they reach high school.
- E. None of the above

5. The phrase "Parents demanded in unison to expedite the process" is used in

the passage.

Which phrase about the demands made by parents is incorrect or not made by parents which is related to the phrase given in the question?

- A. The process of bringing in experimental treatments like gene therapy and exon skipping to India.
- B. Their demands included the creation of an empowered panel of health ministry officials, representatives from the DMD parents, and the

provision of free medications and physiotherapy facilities to all DMD children

C. They requested the government to make a separate category within National Policy for Rare Diseases 2021 (NPRD) for "life-threatening diseases" in order to prioritise help and support for them.

- D. Both b&c
- E. None of the above

6. Which of the following roles of government mentioned by Dr. Sheffali Gulati is incorrect as per the passage given?

- A. Dr. Sheffali Gulati stressed the need for creating Indian innovative models of management in these children, for both medicinal management as well as supportive care.
- B. The Government can provide financial support to these patients in procuring and importing these newer medications.
- C. The government can provide mental support to these patients in bearing the mental trauma faced by parents of these children.
- D. All of the above
- E. None of the above

7. Which of the following information about DMD is incorrect as per the passage given?

- A. It is a fatal genetic disease.
- B. the disease mostly affects girls.
- C. DMD is a muscle-wasting disease that first starts with the weakening of leg muscles.
- D. The disease, in the form of a defective

dystrophin gene (which hinders the production of very vital dystrophin protein), is present since birth.

E. None of the above

Directions (8-13): Given below are some questions based on the passage. You have to read the passage carefully and answer the given questions accordingly.

Obesity has become one of the major markers of various diseases. A growing number of people across the globe are struggling with a variety of diseases, all stemming from obesity. As per a new report by the World Obesity Federation, more than half of the world's population will be overweight or obese by 2035. If not managed early on, obesity could have serious health **implications** and make a person symptomatic to the major life-threatening disease - cancer.

"Having obesity is linked with a higher risk of getting 13 kinds of cancer," as per US's Centre for Disease Control and Prevention. The link between obesity and cancer is complex. In women, the fat tissue or the adipose tissue produces an excess amount of estrogen, often associated with various types of cancers like breast cancer, endometrial cancer and ovarian cancer. People who have high levels of insulin, particularly those who are obese, end up

developing a condition called hyperinsulinemia, which is a cancer threat. This might lead to cancers in the colon, kidney and prostate. "If

obesity is unchecked for a long time, a person can develop 13 odd **malignancies**. It is important to lose weight in the early stages because later, losing weight becomes even more difficult. Then we have to resort to surgical methods like bariatric surgery to prevent diseases from happening," said Dr Kona Lakshmi Kumari, Consultant Surgical Gastroenterologist, Minimal Access GI Surgeon, Metabolic & Bariatric Surgeon, Yashoda Hospitals, Hyderabad. The good news is that obesity is preventable. The fundamental cause of this health condition is the imbalance of calorie intake and energy expenditure. Although there are multiple factors that can cause cancer, avoiding obesity is essential in lowering cancer risk.

The way to start by avoiding obesity is by keeping a check on your BMI (body mass index). Obesity should be detected early on, especially during childhood. According to

Akash Chaudhary, Senior Consultant Gastroenterologist, Hepatologist & Interventional Endoscopist, Yashoda Hospitals, Hyderabad, childhood obesity is a growing medical concern, making kids symptomatic of cancer later on in life, if they do not check their weight. "Not every child who is obese has a larger strain but, due to the risk factor including diet, lack of exercise, family history and psychological factors, and even certain medications, can lead to increased cancer risk. It relates to diabetes mellitus, joint pain,

asthma, non-alcoholic fatty liver disease, high cholesterol, blood pressure, and sleep apnea disorders," said Dr Akash Chaudhary.

8. Which of the following is the synonym of "MALIGNANCIES"?

- A. contempt
- B. antagonism
- C. abhorrence
- D. infatuation
- E. None of the above

9. Which of the following phrases about obesity is incorrect as per the information given in the passage?

- A. The way to start by avoiding obesity is by keeping a check on your BMI (body mass index).
- B. Obesity should be detected early on, especially during childhood.
- C. Obesity Federation, less than half of the world's population will be overweight or obese by 2035.
- D. Both a&b
- E. None of the above

10. Which of the following is the antonym of "IMPLICATIONS"?

- A. determinant
- B. allusion
- C. connotation
- D. innuendo
- E. None of the above

11. Which of the following methods to prevent obesity was not given by Dr Kona Lakshmi Kumari, Consultant Surgical Gastroenterologist?

- A. It is important to lose weight in the early stages because later, losing weight becomes even more difficult.
- B. we have to resort to surgical methods like bariatric surgery to prevent diseases from happening
- C. Obesity should be detected early on, especially during childhood.
- D. Both a&b
- E. None of the above

12. Who said this statement?

"Not every child who is obese has a larger strain but, due to the risk factor including diet, lack of exercise, family history and psychological factors, and even certain medications, can lead to increased cancer risk."

- A. Dr Yasodha
- B. Dr Akash choudhary
- C. Dr Kona Lakshmi
- D. Both a&c
- E. None of the above

13. Which of the following statements explains about the link between obesity and cancer which is complex as per the given passage?

- A. In women, the fat tissue or the adipose tissue produces an excess amount of estrogen, often associated with various types of cancers like

breast cancer, endometrial cancer and ovarian cancer.

B. In men, the fat tissue or the adipose tissue releases an excess amount of estrogen, often associated with various types of cancers like prostate cancer, endometrial cancer and skin cancer.

C. People who have high levels of insulin, particularly those who are obese, end up developing a condition called hyperinsulinemia, which is a cancer threat.

D. Both a&c

E. None of the above

Directions (14-17): Given below are some questions containing three sentences each which may or may not be grammatically correct. You have to choose the sentence as your answer which is grammatically incorrect. If none of the sentences is incorrect then choose option E as your answer.

14.

a. In 2019, the issue of abducting and forcible conversion of Hindu girls in various districts of Sindh province was taken up in the Sindh Assembly.

b. In January this year, as many as 12 United Nations rights experts express alarm over the rising incidents of kidnapping, forced conversions and marriages of girls as young as 13 in Pakistan.

c. The majority of Pakistan's Hindu population is settled in Sindh province where they share

culture, traditions and language with their Muslim residents.

A. Only a

B. Only b

C. Only c

D. Both a&c

E. No error

15.

a. Five people were injured in a bomb blast in Sasaram town of Bihar after fresh violence erupted in the state on Saturday evening.

b. The summits, which Biden promised as a candidate in 2020, have become an important piece of his administration's effort to try to build deeper alliances.

c. The White House announced plans for the US Cybersecurity & Infrastructure Security Agency to partner with nine other countries to work on protecting human rights.

A. Only a

B. Only b

C. Only c

D. Both a&c

E. No error

16.

a. The US draws an ideological line between countries, and through its narrative of 'democracy vs. authoritarianism,' it has formed factions and caused divisions in the international community,

b. In February the Himalayan state of Himachal Pradesh, and the World Bank discussed a

greener and more sustain growth path to achieve the target of a 'Green Energy State' by 2026.

c. Childhood obesity occurs when a child is significantly overweight for their age and height.

- A. Only c
- B. Both b&c
- C. Both a&b
- D. Both a&c
- E. None of the above

17.

a. Using data science, biology, paediatrics and public health, the researchers from the University of Sydney concluded that childhood obesity is largely a by-product of socioeconomic status.

b. The incorporation of AI-based tools and techniques is expected to improve healthcare delivery by making healthcare access and affordable.

c. Takotsubo cardiomyopathy or broken heart syndrome is an heart condition brought on by stressful situations or extreme conditions.

- A. Only a
- B. Only b
- C. Both a&c
- D. Both b&c
- E. None of the above

Directions (18-21): Given below are some questions with two columns in each of them containing two parts of the sentences to be matched in order to make a contextually correct sentence. If none of the combinations of options

are correct then choose option E as your correct answer.

18.

Column 1	Column 2
1. The IRDAI asked all insurers to design a product which will cater to all the basic recommendations of the	a. disabled for them to be inclusive in the health insurance cover of disabled people.
2. NCPEDP, an organization working for	b. challenges and concerns of the disabled people in front of IRDAI, the team met with Rakesh Joshi, Member, IRDAI, and apprised them about the challenges faced by the disabled and the way forward.
3. With the objective of bringing forth the	c. disability rights for the past 26 years, has been constantly advocating for health insurance coverage for disabled people.

A. 1-a, 2-b, 3-c

B. 1-b, 2-c, 3-a

- C. 1-c, 2-a, 3-b
- D. 1-a, 2-c, 3-b
- E. None of the above

19.

Column 1	Column 2
1. An irregular heartbeat is called atrial fibrillation (AFib)	a. and due to this, there are dangers like heart attack, brain stroke and blood clots.
2. Scientists believe that any activity that increases	b. blood pressure can trigger fibrillation and the same happens with loud noises.
3. Exposure to sound at too high a volume can	c. fatigue the sensory cells and structures in the ear.

- A. 1-a, 2-b, 3-c
- B. 1-b, 2-c, 3-a
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-c, 3-b
- E. None of the above

20.

Column 1	Column 2
1. One must avoid listening to music at 100 decibels	a. is a procedure to open blocked coronary arteries, which are blocked by coronary artery disease.

2. Sound above 50-70 decibels is considered harmful	b. or more for more than 15 minutes as it badly affects hearing ability.
3. Angioplasty, also called percutaneous coronary intervention (PCI),	c. which affects a person's heart and mind.

- A. 1-a, 2-b, 3-c
- B. 1-b, 2-c, 3-a
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-c, 3-b
- E. None of the above

21.

Column 1	Column 2
1. Shigella bacteria causes	a. shigella is spread by eating or drinking food or water contaminated with the bacteria.
2. Found in the intestinal tract of infected people,	b. to get sick for a longer period of time once they get infected by the bacteria.
3. People who have poor health and weakened immune systems are more likely	c. an infection called shigellosis and can spread easily from one person to another.

- A. 1-a, 2-b, 3-c
- B. 1-b, 2-c, 3-a
- C. 1-c, 2-a, 3-b
- D. 1-a, 2-c, 3-b
- E. None of the above

Directions (22-26): Given below are some questions with two sentences each containing one blank each to be filled by the appropriate options in order to make sentences contextually correct. If none of the options are suitable for the given blank then choose option E as your correct answer.

22.

- a. Anxiety, being one of the most common mental health issues a person faces, especially when handling stressful situations, gets activated when an individual _____ stress.
- b. Speech disability is a condition in which a person has problems creating or forming a sentence and often makes speech sounds needed to _____ with others.
 - A. curtails, communicate
 - B. undergoes, accentuate
 - C. curtails, accentuate
 - D. Undergoes, communicate
 - E. None of the above

23.

- a. Children who are _____ to pet cats or dogs during their early infancy or fetal

development are less likely to develop food allergies.

- b. There are several types of speech disabilities, including _____ disorders, phonological disorders, disfluency and voice disorders.

- A. proposed, articulation
- B. pre-empted, partaking
- C. exposed, articulation
- D. pre-empted, serenity
- E. None of the above

24.

- a. Fertility preservation is an _____ field that provides the opportunity to maintain reproductive health for all those who have to receive medical treatment or want to preserve their gametes to postpone childbearing.
- b. Egg freezing is a common fertilisation process to _____ when a person is not physically or mentally prepared to have a baby.
 - A. emerging, adopt
 - B. persevering, adapt
 - C. emerging, adapt
 - D. persevering, adept
 - E. None of the above

25.

- a. Kidney disease is usually silent in the early stages, wherein it can be diagnosed with the help of investigations like serum creatinine and urine albumin _____.
- b. Simple investigations like kidney function test, urine evaluation and blood pressure monitoring

can give us an indication regarding involvement of the kidney at early stages, where appropriate measures can be taken to halt or reverse the _____ of kidney disease.

- A. preservation, progression
- B. detection, progression
- C. detection, regression
- D. preservation, regression
- E. None of the above

26.

a. Speech disabilities can impact the entire family, so it's important to involve everyone in the process of _____ them.

b. Artificial light may make it harder to fall asleep by _____ our body's natural sleep coordinator - Melatonin.

- A. overcoming, surpassing
- B. stabilising, suppressing
- C. stabilising, surpassing
- D. overcoming, suppressing
- E. None of the above

Directions (27-30): Given below are some questions with two highlighted words each. You have to find the synonym of the first word and the antonym of the other. The synonym of the word first in the sequence and antonym of the word last in sequence should be found. If none of the options are correct then choose option E as your answer.

27. According to Dr Rajiv Bahl, Secretary to the Government of India, Department of Health

Research and Director General (ICMR), the adoption of AI technology in healthcare is growing in India. However, AI as data-driven technology has many potential **ethical** challenges, including algorithmic transparency and explainability, clarity on **liability**, accountability and oversight, bias and discrimination.

- A. prerogative, righteous
- B. righteous, prerogative
- C. assistance, righteous
- D. ascendancy, prerogative
- E. None of the above

28. A condition called takotsubo cardiomyopathy, also known as broken heart syndrome, is seen when a person feels a little chest pain due to **intense** emotional and physical stress. In rare cases, broken heart syndrome can become a medical condition if the pain **persists**.

- A. acute, succumb
- B. succumb, acute
- C. yield, knock off
- D. astute, peremptory
- E. None of the above

29. Breast cancer has become one of the most common cancers in women in India. Though cases of it are rising every year, **diagnosis** of the disease is quite challenging. Mainly because younger women typically have **denser** breast tissue than older women.

- A. consensus, deliverance
- B. deliverance, consensus

C. spacious, mandate

D. mandate, spacious

E. None of the above

30. While **disability** rights groups demand insurance instruments for the disabled, there was not much movement, until recently, on an **instruction** of the Delhi High Court, the IRDAI issued orders asking private insurers to design instruments for the disabled.

A. detriment, petition

B. petition, detriment

C. detriment, debilitation

D. competence, faculty

E. None of the above

Directions (31-36): Given below are some questions on the basis of blanks given in the above paragraph. You have to fill the blanks with appropriate words from the options in order to make the paragraph contextually correct. If none of the words from the options are suitable then choose option E as your correct answer.

Chronic kidney diseases (CKD) are quite (a)_____ in India. However, most experts believe that CKD is underdiagnosed. The kidneys play a (b)_____ role in the body as waste filters. They are two bean-shaped organs located at the bottom of the rib cage that perform important functions like filtering out excess water and impurities in the blood. They are known to (c)_____ the body's pH level, salt and potassium amounts. The kidneys produce hormones to control the production of red blood

cells, which carry oxygen to the entire body. With an (d)_____ lifestyle, the kidneys can get affected. While kidney diseases are known as "silent killers", it is important to (e)_____ the early signs of any illness. If risk factors are left unchecked, they could become (f)_____.

31. Which of the following will come in blank a?

A. Relevant

B. Irrelevant

C. Dominating

D. Prevalent

E. None of the above

32. Which of the following will come in blank b?

A. promising

B. relevant

C. significant

D. tantalizing

E. None of the above

33. Which of the following will come in blank c?

A. regulate

B. permit

C. decrease

D. increase

E. None of the above

34. Which of the following will come in blank d?

A. proper

B. improper

C. balanced

- D. imbalanced
- E. None of the above

35. Which of the following will come in blank e?

- A. drop
- B. pursue
- C. catch
- D. permit
- E. None of the above

36. Which of the following will come in blank f?

- A. suppressed
- B. chronic
- C. mesmerizing
- D. traumatic
- E. None of the above

Directions (37-40): Given below are some questions each after a paragraph. You have to read the paragraph carefully and answer by drawing inference from the paragraph and mark your answer accordingly. If none of the options are correct then choose option E as your answer.

37. On March 21, Rajasthan became the first state in India to pass the Right to Health (RTH) bill. The bill allows free access to out-patient and inpatient services in all government and selected private hospitals in the state. Ever since the bill was passed, the medical fraternity has been up in arms against it. In a nutshell, the majority of doctors feel that the RTH bill is an assault on their “business model”. This needs to be seen in context of a nation reeling under the broken moral

compass across various spheres of life be it political, social or professional and not merely limited to health care providers.

What can be inferred from the above paragraph?

- A. Medical fraternity in Rajasthan is not happy with the Right to health bill passed by the Rajasthan Government.
- B. Medical fraternity in Rajasthan is happy with the Right to health bill passed by the Rajasthan Government.
- C. Medical fraternity of Rajasthan is in favour of Right to health bill
- D. Rajasthan Government passed the Right to health bill to increase prices of the medicines to help medical fraternity
- E. None of the above

38. The recent attack on the Indian mission in London by a Khalistani mob when the country’s national flag was desecrated and the British police failed to provide any security despite being alerted raises questions about the host government’s commitment to the Vienna Conventions and to the ambitious goals set out in the India-UK Roadmap 2030 to elevate bilateral ties to a comprehensive strategic partnership.

The term “**Comprehensive strategic partnership**” can be inferred

as_____

- A. Any real strategic partnership is founded on respecting the sovereignty and territorial integrity of parties and non-interference in internal affairs.
- B. Any real strategic partnership is founded on respecting cultural and medical integrity of parties and non interference in internal affairs.
- C. Any real strategic partnership is founded on respecting the sovereignty and territorial integrity of parties and non-interference in external affairs.
- D. Any real strategic partnership is founded on respecting the cultural and medical integrity of parties and non-interference in external affairs.
- E. None of the above

39. Opposition MPs from Trinamool Congress wear black masks around their mouths. Opposition MPs from Congress, DMK, SP and others put up a giant banner on the facade of Parliament building, demanding a Joint Parliamentary Committee. Some Opposition party MPs sign caps with the words “Arrest Adani” inscribed on them. These are then taken to the offices of the Finance Minister, Enforcement Directorate and Central Bureau of Investigation.

What does wearing black masks by Opposition MPs signify?

- A. Opposition MPs from Trinamool Congress wear black masks around their mouths to signify how their voices are being raised in Parliament.
- B. Opposition MPs from Trinamool Congress wear black masks around their mouths to signify how their voices are being muzzled in Parliament.
- C. Opposition MPs from Trinamool Congress wear black masks around their mouths to signify how their presentations are being presented in Parliament.
- D. Opposition MPs from Trinamool Congress wear black masks around their mouths to signify how their voices are being muzzled in foreign.
- E. None of the above

40. When Nat Sciver-Brunt wrapped up the high-octane Mumbai-Delhi final of the Women's premier league with a memorable boundary, there was a sense of completeness. In its inaugural edition, the WPL delivered what sports demands the most — a thrilling finish. A 94 metre six was hit in the course of the WPL, it would only be correct to push the boundaries out. For India, left arm spinner Saika Ishaque who finished with 15 wickets, only one behind the leading top wicket-taker, was the find of the WPL.

What inference can be made from the given paragraph?

A. The men's Premier League is the equal opportunity women's cricket has been waiting for all these years.

B. The WPL is the equal opportunity women's cricket has been waiting for all these years.

C. The Women Premier League is the equal opportunity men's cricket has been waiting for all these years.

D. Both a&b

E. None of the above

Answer Key with Explanation

1. Answer: D

Here, backdrop means the physical conditions or features that form the setting against which something is viewed and here stage means the same and rest others are antonyms. So, option D is the correct answer.

2. Answer: E

Here, none of the above given phrases is incorrect as all of the given phrases are used in passage. As the demand of parents to expedite the process is given, DMD is a muscle wasting disease is also given, it is growing rapidly which is also given and addressing of the devastating effects of the disease is also given in the above passage. So, option E is the correct answer.

3. Answer: D

Here, procuring means obtaining (something), especially with care or effort and here forfeiting is only an antonym and rest others are synonyms. So, option D is the correct answer.

Annexing means to capture.

Garnering means to acquire.

4. Answer: C

Here, from the lines, However, the first symptoms manifest between the ages of five and seven, when children find walking difficult due to weakness in the calf muscles. Growing rapidly, soon it engulfs every muscle of the body including the heart and lungs. The result: most children are wheelchair-bound before they reach high school. Most of them don't live beyond their 20s, we can say that most of them don't live beyond their twenties. So, option C is the correct answer.

5. Answer: C

Here, from the lines, Parents demanded in unison to expedite the process of bringing in experimental treatments like gene therapy and exon skipping to India. Their demands included the creation of an empowered panel of health ministry officials, representatives from the DMD parents, and the provision of free medications and physiotherapy facilities to all DMD children,

The speakers at the event also requested the government to make a separate category within National Policy for Rare Diseases 2021 (NPRD) for “life-threatening diseases” in order to prioritise help and support for them, we can say that the request to make separate category within national policy for NPRD was made by speaker but not from parents themselves. So, option C is the correct answer.

6. Answer: C

Here, from the lines, Commenting on the role of the government, Dr Sheffali Gulati, head of Pediatric Neurology, at AIIMS, Delhi, said, "The Government can provide financial support to these patients in procuring and importing these newer medications. It can also help in easing out the cumbersome process of obtaining requisite approvals from the drug regulatory authorities for the import of these newer drugs." Gulati also stressed the need for creating Indian innovative models of management in these children, for both curative management as well as supportive care. We can say that support for mental trauma is nowhere mentioned in the passage by Doctor. So, option C is the correct answer.

7. Answer: B

Here, from the passage we can conclude that it is a fatal genetic disease, it is a muscle wasting disease and the disease is present since birth and also the disease mostly affects the boys but in options it is given that disease mostly affects

girls which is incorrect. So, option B is the correct answer.

8. Answer: D

Here, malignancies means the desire to cause pain for the satisfaction of doing harm and here infatuation means a strong but often short lived liking for another person which is a synonym of malignancies. So, option D is the correct answer.

Abhorrence- a feeling of revulsion; disgusted loathing.

Antagonism- active hostility or opposition.

Contempt- the feeling that a person or a thing is worthless or beneath consideration.

9. Answer: C

Here, as per the passage, according to the statement by the Obesity Federation, more than half of the world’s population will be overweight by 2035 but in option it is said that less than half of the population will be overweight by 2035. So, option C is the correct answer.

10. Answer: A

Here, implications means an idea that is conveyed often indirectly and here determinant is only an antonym and rest others are synonyms. So, option A is the correct answer.

Innuendo means a slyly or subtly derogatory remark.

Allusion means a statement refers to something without mentioning it directly.

Connotation means an idea or feeling which a word invokes for a person in addition to its literal or primary meaning.

11. Answer: C

From the lines, "If obesity is unchecked for a long time, a person can develop 13 odd malignancies. It is important to lose weight in the early stages because later, losing weight becomes even more difficult. Then we have to resort to surgical methods like bariatric surgery to prevent diseases from happening," said Dr Kona Lakshmi Kumari." We can say that the only phrase contained in option C was a method given by Dr Kona Kumari whereas it was given by Dr Akash Chaudhary mentioned in the last paragraph of the passage. So, option C is the correct answer.

12. Answer: B

From the lines, obesity is a growing medical concern, making kids symptomatic of cancer later on in life, if they do not check their weight. "Not every child who is obese has a larger strain but, due to the risk factor including diet, lack of exercise, family history and psychological factors, and even certain medications, can lead to increased cancer risk. It relates to diabetes mellitus, joint pain, asthma, non-alcoholic fatty liver disease, high cholesterol, blood pressure, and sleep apnea disorders," said Dr Akash Chaudhary. From the above paragraph we can say that Dr. Akash Chaudhary said this statement. So, option B is the correct answer.

13. Answer: D

From the lines, The link between obesity and cancer is complex. In women, the fat tissue or the adipose tissue produces an excess amount of estrogen, often associated with various types of cancers like breast cancer, endometrial cancer and ovarian cancer. People who have high levels of insulin, particularly those who are obese, end up developing a condition called hyperinsulinemia, which is a cancer threat. This might lead to cancers in the colon, kidney and prostate. We can say from the lines that only option D is the correct answer as the passage clearly explains the statement given in option A and C. So, option D is the correct answer.

14. Answer: B

Here, error lies in the second sentence as use of express as a verb is inappropriate as sentence is in past tense and so it uses past form of express which is expressed. Here, past simple forms of verbs will be used.

"Express" will be replaced by "expressed". So, option B is the correct answer.

15. Answer: E

Here, none of the sentences have errors in it. So, option E is the correct answer.

16. Answer: B

Here, error lies in the **second** and **third** sentence. In the second sentence to qualify a **noun (growth)**, we need an adjective (**sustainable**).

In the third sentence the use of **there** is inappropriate and it should be replaced with **“their”**. There is used as an adverb that means in or at that place whereas there is the possessive case of pronoun.

So, **option B** is the correct answer.

17. Answer: D

Here, error lies in the **second** and **third** sentence. In the second sentence, the rule of parallelism is not followed. It states that if two or more ideas are parallel, they should be expressed in parallel grammatical form. So **access** will be replaced by **accessible**.

In the third sentence, the use of **“an”** before heart is inappropriate as heart doesn't start with a vowel. An is used before words starting with vowels or sounding like vowels whereas **“a”** is used all other than those mentioned for **“an”**. So, a will be used here. So, option D is the correct answer.

18. Answer: D

Here, first match will be 1-a as context of the sentence is insurance for the disabled person and same has been matched accordingly, second match will be 2-c as an organization mentioned as NCPEDP working for the disability rights is being explained and same has been matched accordingly and final match will be 3-b as this

match is about challenges being faced by IRDAI and same has been matched accordingly. So, option D is the correct answer.

19. Answer: A

Here, first match will be 1-a as the sentence is about a condition of irregular heartbeat and dangers due to this is being explained and second match will be 2-b as it explains activities increasing blood pressure and final match will be 3-c as it gives explanation about the effect of too high sound on ears. So, option A is the correct answer.

20. Answer: B

Here, first match will be 1-b as it gives information about the affect on hearing ability while listening at 100 decibels, second match will be 2-c which gives the information about the range of decibels harmful for heart and mind and final match will be 3-a which gives information about angioplasty and reason why it is carried out for. So, option B is the correct answer.

21. Answer: C

Here, first match will be 1-c as it gives information about Shingella bacteria and infection caused by this, second match will be 2-a which gives information about the place where it is found and how it is spread and final match will be 3-b as it gives information about the types of peoples it is most likely to attack on. So, option C is the correct answer.

22. Answer: D

Here, **undergoes** fits best in the first blank as the sentence is about anxiety and handling of stressful situations by person and here an individual experiencing stress is being talked. Undergo means to experience and same fits here.

In second blank **communicate** fits best as it means to share and exchange information, or ideas with somebody and here communication with others is being talked. So, option D is the correct answer.

Curtails means to make something shorter or smaller or to reduce something.

Accentuate means to emphasize something or make something easier to notice.

23. Answer: C

Here, **exposed** fits best in the first blank as it means not insulated or not protected and here children who are not protected from the pets are talked so exposed fits best.

In the second blank **articulation** fits best as it means being able to express oneself clearly and well and here several types of speech disabilities are talked about and therefore articulation fits best. So, option C is the correct answer.

Serenity means the state of being calm.

Preempted means to prevent something from happening by taking actions to stop it.

24. Answer: A

Here, **emerging** fits best in the first blank as it means to appear or come out from somewhere and here fertility preservation field is talked about which is emerging so emerging fits best here

In second blank **adopt** fits best as it means to take and use something and here egg freezing technique adoption is talked about. So, option A is the correct answer.

Adapt means to adjust

Adept means expert

25. Answer: B

Here, in the first blank **detection** will be used as it means to discover or identify the presence or existence of something and here detection of some particles in urine is talked so it fits best

In second blank **progression** fits best as it means movement forward or a development from one stage to another and here measures taken to move forward in reversing the disease is talked about. So, option B is the correct answer.

Regression means a statistical technique that relates dependent variables to one or more independent variables.

26. Answer: D

Here, **overcoming** fits best in the first blank as it means to manage to control or defeat somebody or something and here to defeat speech disability is main context so overcoming fits best

In second blank **suppressing** fits best as it means to stop something by using force or to stop something from being seen or known and here

suppression of melatonin by artificial light is the main context of the sentence. So, option D is the correct answer.

Surpassing means to do something better than somebody or something else or better than expected.

27. Answer: B

Here, ethical means involving or expressing moral approval or disapproval or of relating to ethics and here righteous is the synonym and liability means a feature of someone or something that creates difficulty for achieving success and here prerogative is the antonym. So, option B is the correct answer.

28. Answer: A

Here, intense means existing in extreme degree and here acute means same so it is the synonym and persists means to continue despite difficulties or discouragement and here succumb is the antonym. So, option A is the correct answer.

Astute means having or showing an ability to accurately assess situations or people and turn this to one's advantage.

Peremptory means insisting on immediate attention or obedience, especially in a brusquely imperious way.

29. Answer: D

Here, diagnosis means a position arrived at after consideration and here mandate means same so it is synonym and denser means having little

space between items or parts and here spacious is the antonym. So, option D is the correct answer.

30. Answer: A

Here, disability means a condition that interferes with someone's ability to engage in certain tasks and here detriment means the same and instruction means a statement of what to do that must be obeyed by those concerned and here petition is the antonym as it means exactly opposite. So, option A is the correct answer.

Detriment means a state of being harmed or damaged.

Debilitation means to make somebody's body or mind weaker.

Competence means the fact of having the ability or skill that is needed for something.

31. Answer: D

Here, prevalent fits best for the first blank of the passage as it means most common in a particular place at a particular time. So, option D is the correct answer.

Dominating means to be more powerful, important or noticeable than others.

32. Answer: C

Here, significant will be used in the second blank as it means important or large enough and here the important role is being talked about. So, option C is the correct answer.

Relevant means connected with something.

Tantalizing means making you want something that you cannot have or do, tempting.

33. Answer: A

Here, regulate fits best for the third blank as it means to control something. So, option A is the correct answer.

34. Answer: B

Here, improper will be used as it fits contextually in the blank. So, option B is the correct answer.

35. Answer: C

Here, catch will be used as it fits best in the blank contextually. So, option C is the correct answer.

36. Answer: B

Here, chronic will be used in the last blank as it means that it continues for a long time and chronic disease is being talked about. So, option B is the correct answer.

Mesmerizing means to hold somebody's attention completely.

37. Answer: A

Here, from the paragraph it can be concluded that the bill passed by Rajasthan named Right to

health Bill is not acceptable by the medical fraternity and they are not happy with the bill. So, option A which says that they are not happy with the bill is the correct answer.

38. Answer: A

Here, the highlighted phrase means Any real strategic partnership is founded on respecting the sovereignty and territorial integrity of parties and non-interference in internal affairs. So, option A is the correct answer.

39. Answer: B

Here, from the paragraph one can easily conclude that the opposition wore black masks around their mouths to signify how their voices are being slowed down or muzzled which means to shut mouth, in the parliament. So, option B is the correct answer.

40. Answer: B

Here, from the paragraph one can easily conclude that the context of paragraph is how women's cricket is the equal opportunity provider for the women waiting for it for years. So, option B is the correct answer.

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Prelims Scoring Part

Sample Questions for Prelims Scoring Part

Directions (1-7): Read the following passage carefully and answer the following questions.

The infrastructure sector has emerged as a high policy priority and the launch of the Gati Shakti initiative by Prime Minister Narendra Modi this week adds a new dimension of implementation to the **endeavour**. This is a significant step forward for the country's logistics, where inefficiencies result in an estimated cost burden of 13-14% of gross domestic product (GDP), compared to 6-8% in more competitive economies.

The Gati Shakti National Master Plan is expected to deploy a geo-spatial digital platform that will provide real-time information on infrastructure projects across 16 ministries. The use of digital technologies to map infrastructure facilities has been lacking in India, and with the availability now of relevant data and satellite information, the launch of such a portal _____ the country towards a modern infrastructure process system. Greater visibility in core areas such as railways, shipping and roads and highways should serve to feed the development of facilities in an integrated manner. With a single portal including multi-layer levels of data, decision-making and various implementation processes can be streamlined and made both efficient and timely.

The initiative builds upon the government's previous actions and policies to promote infrastructure. Public-private partnerships have

been redesigned and include new models such as toll-operate-transfer and a hybrid annuity model. *Access to finance has opened up through innovation mechanisms such as infrastructure and real estate investment trusts and development finance institutions.*

Gati Shakti comes with several potential benefits to the economy. At a time when public expenditure is expected to support growth, it would ensure better utilization of scarce funds and keep investments in new projects going. Faster infrastructure construction can be a large employment multiplier, creating new job opportunities in rural areas. New connectivity and linkages will enable regions that are currently excluded to join the economic mainstream, which in turn could generate multiple business opportunities as rural and urban commercial activity experience better integration.

1. Which of the following statements is/are False about the Gati Shakti master plan?

- I). The Gati Shakti master plan has been launched by Prime Minister Narendra Modi.
 - II). Eighteen ministries are covered under the Gati Shakti master plan.
 - III). The main focus of the Gati Shakti master plan will be on the infrastructure sector.
- A. Only I
B. Both I and II
C. Both II and III

D. Both I and III

E. Only II

2. What is the reason behind the launching of the Gati Shakti master plan in India?

I). Due to the lack of digital technologies to map infrastructure facilities.

II). Due to the high logistic costs.

III). Due to the low handling of cargo capacity.

A. Only I

B. Both I and II

C. Both II and III

D. Both I and III

E. Only II

3. Which of the following statements is true to the context of the passage?

I). Faster infrastructure construction helps to create employment.

II). The Gati Shakti National Master Plan will provide real-time information on infrastructure projects.

III). There will be no delay in decision-making and implementation processes after the streamlining of the master plan.

A. Only I

B. Both I and II

C. Both II and III

D. Both I and III

E. Only II

4. Which of the following has been not included in the master plan?

A. Schools and Hospitals

B. Roads and Highways

C. Development finance institutions

D. Shipping and Railways

E. All of the above are included

5. Find out the erroneous statement.

A. Access to finance has opened up

B. through innovation mechanisms

C. such as infrastructure and real estate

D. investment trusts and development finance institutions

E. No error

6. Which of the following will be the most suitable word for the given blank in the passage?

A. Both B and D

B. Impedes

C. Hinders

D. Catapults

E. None of the above

7. Which of the following is the synonym of the highlighted word “endeavor”?

A. Success

B. Breach

C. Aspire

D. Volunteer

E. None of the above

Directions (8-12): The following passages given below have five blanks each in them. In the options, words that can fill the blanks have been

given. Choose the words that can help fill the blanks in and make the paragraph meaningful.

India's ambitious plan to cut the use of fossil fuels by promoting ethanol derived from rice, corn and sugar is _____(A) _____(B) from some experts who warn the move could undermine food security in the world's second-most populous country. In June, Prime Minister Narendra Modi's administration accelerated the nation's ethanol goal by five years, seeking to double production and to have gasoline 20% blended with the spirit by 2025. To help meet the target, the government is _____(C) financial assistance to biofuel producers and faster environmental clearances. The plan is also resulting in the diversion of food grains meant for the poor to companies at subsidized rates.

Even as many developed countries debate limiting policy support for grain-based biofuels amid reports of food-price increases and greenhouse gas emissions from deforestation, India is seeing multifold benefits. The government argues that the new target will help the world's third-largest oil consumer save 300 billion rupees (\$4 billion) annually by _____(D) crude imports, reduce carbon emissions and boost farmers' incomes. But critics say it's a self-goal for a country that's struggled for years to feed its poor. Though the Green Revolution helped boost farm yields and turn India into a net exporter of wheat and rice, it still ranks 94th on the Global Hunger Index 2020 comprising 107 nations. The Food and Agriculture Organization estimates that

about 209 million Indians, or about 15% of its population, were undernourished between 2018 and 2020. The coronavirus pandemic is also _____(E) more people into poverty, dealing a blow to decades of progress.

8. The word that will best fill the blank labelled (A) is?

- A. Drawing
- B. Attract
- C. Scaling
- D. Harnessing
- E. None of the above

9. The word that fills the blank (B) from the given options is?

- A. Rage
- B. Criticism
- C. Discourse
- D. Commendation
- E. None of the above

10. Choose the option that best fits in the blank (C) to make a meaningful paragraph.

- A. Provide
- B. Taking
- C. Offering
- D. Planned
- E. None of the above

11. Which of the given words would fit in the blank (D)?

- A. Increasing

- B. Cutting
- C. Promoting
- D. Exceeding
- E. Curb

12. The word that completes the blank (E) is?

- A. Descending
- B. Compel
- C. Casting
- D. Pushing
- E. Forced

Directions (13-17): In each of the following questions, a sentence has been divided into five parts out of which one part is erroneous. You are required to choose the option which is grammatically or contextually incorrect.

13. Excessive rainfall has thrown (a)/ normal life out of gear in Uttrakhand.(b)/ Torrential rainfall and floods (c)/ have lead to food scarcity (d)/ and lack of transportation.(e)

- A. a
- B. b
- C. c
- D. d
- E. e

14. Gujarat has vaccinated 90 percent of its (a)/ eligible population with the first (b)/ dose of Covid-19 vaccine, while (c)/ 47 percent beneficiaries are completely (d)/ vaccinated for the deadly disease.(e)

- A. a

- B. b
- C. c
- D. d
- E. e

15. Delhi Chief Minister Arvind Kejriwal (a)/ said an order has been issued to (b)/ give compensation of Rs 50,000 per hectare (c)/ to farmers whom crops have been (d)/ damaged due to untimely rains in the city.(e)

- A. a
- B. b
- C. c
- D. d
- E. e

16. The Madhya Police arrested (a)/ four people, including (b)/ a professional Kabaddi player, (c)/ for their alleged (d)/ involving in arms trafficking.(e)

- A. a
- B. b
- C. c
- D. d
- E. e

17. Describing Lord Buddha as the inspiration (a)/ for India's Constitution even today,(b)/ Prime Minister Narendra Modi said Buddha (c)/ reside in the soul of humanity (d)/ and connects different cultures and countries.(e)

- A. a
- B. b
- C. c

- D. d
- E. e

Answer Key with Explanation

1. Answer: E

Out of the given three statements only II is false to the context of the passage remaining I and III are true.

Correct statement-

Sixteen ministries are covered under the Gati Shakti master plan. Hence option E is the correct answer.

2. Answer: A

Refer to the second paragraph- “The use of digital technologies to map infrastructure facilities has been lacking in India, and with the availability now of relevant data and satellite information, the launch of such a portal catapults the country towards a modern infrastructure process system.” **From the above quoted lines we can say that option A is the correct answer.**

3. Answer: E

All the given statements are true to the context of the passage; hence option E is the correct answer.

4. Answer: A

Schools and Hospitals are not included in the Gati Shakti master plan because this is a Multimodal

Infrastructure plan And nowhere in the passage information regarding Schools and Hospitals have been mentioned. So the correct answer is option A.

5. Answer: B

Usage of “**innovation**” is grammatically incorrect. Replace “**innovation**” with “**innovative**” because mechanism is a noun, and we know that adjective qualifies the noun. So “**innovative**” is the apt usage. Thus the correct option is B.

6. Answer: D

The most suitable word will be “**Catapults**” which means **hurl or launch (something) with; propel**. Remaining words “**hinders**” and “**impedes**” which means make it difficult for (someone) to do something or for (something) to happen and it gives entirely opposite meaning to the entire sentence.

So the correct answer is option D

7. Answer: C

Endeavour means trying hard to do or achieve something and aspire is the synonym, remaining words are incorrect, and hence option C is the correct answer.

8. Answer: A

The government's plan has become a cause of attracting criticism. So, the word 'drawing' fits in the best.

Hence, option (a) is the best answer.

9. Answer: B

The critics don't seem to be happy about the production of ethanol from the edible items and hence, they are criticizing the idea being proposed.

Option (b) happens to fit in apt.

10. Answer: C

The sentence talks about the government that is giving or providing financial assistance. So, the best word would be 'offering' and not taking as given in the second option.

Hence, option (c) is correct.

11. Answer: B

The tone of the sentence is 'limiting' or 'controlling' the crude exports.

So, the best option is 'cutting' and hence is the right answer.

12. Answer: D

The sentence talks about forcing more people into poverty.

So, pushing is the best option.

13. Answer: D

Out of the five given parts, **part (d)** has a grammatical error. Usage of **(have lead)** is incorrect because "have" is followed by V3 and the third form of lead will be **led**. So "**led**" will be the correct word.

Correction- "have led to food scarcity"

Hence option D is the correct answer.

14. Answer: E

Out of the five given parts, **part (e)** has a grammatical error. Usage of preposition **(for)** is incorrect. So "**against**" will be the correct word. Usage of **against-** in order to prevent something from happening or to reduce the damage caused by something.

Correction- "vaccinated **against** the deadly disease."

Hence option E is the correct answer.

15. Answer: D

Out of the five given parts, **part (d)** has a grammatical error. Usage of **(whom)** is incorrect. **(Whom)** will be replaced by **(Whose)**

Correction- "to farmers **whose** crops have been"

Hence option D is the correct answer.

16. Answer: E

Out of the five given parts, **part (e)** has a grammatical error. Usage of verb **(involving)** is incorrect. **(involving)** will be replaced by the noun **(involvement)**

Correction- "involvement in arms trafficking"

Hence option E is the correct answer.

17. Answer: D

Out of the five given parts, **part (d)** has a grammatical error. Usage of (**reside**) is incorrect because Budhha is a singular noun and it should

be followed with a singular verb. So “**resides**” will be the correct word.

Correction- “**resides** in the soul of humanity”

Hence option D is the correct answer.

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Mains Booster

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Sample Questions For Mains Booster

Directions (1-3): In the following questions three columns are given containing three Sentences/phrases and three connectors. A sentence/phrase from the first column may or may not connect with another sentence/phrase from the second column by using the given connectors to make a grammatically and contextually correct sentence. Each question has five options, each of which display the sequence(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence.

1)

Column I	Column II	Column III
a) The Enforcement Directorate conducted searches at some locations in Mumbai.	I. despite	d) heavy rain and the release of dam water into rivers.
b) Tamil Nadu's government school's headmistress refused to hoist the national flag.	II. in connection with	e) the independence day event and stated that her religion disallowed her to do so.
c) Flood alerts have been issued in several places across the country.	III. due to	f) the ₹5 1,034 crore Patra Chawl land scam case.

- A. a-II-f
B. c-III-d
C. b-I-e

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D. a-II-f and c-III-d

E. a-II-f, b-I-e and c-III-d

2)

Column I	Column II	Column III
a) Indian Railways announced new luggage rules, as a result of which train passengers will now have to either limit their luggage.	I. or	d) they want to carry goods weighing more than the standard fixed by the railway.
b) Railways have fixed a limit on luggage according to each coach.	II. such that	e) will have to pay more for carrying extra baggage while travelling.
c) Passengers will now have to pay extra	III. if	f) heavy goods ranging from 40 kg to 70 kg can be kept in the train compartment.

A. a-I-e and b-II-f

B. c-III-d

C. b-II-f and c-III-d

D. a-I-e and c-III-d

E. a-I-e, b-II-f and c-III-d

3)

Column I	Column II	Column III
a) Of 7,239 cities, India is home to 18 of the 20 cities	I. and	d) with the most severe increase in PM2.5 pollution from 2010 to 2019
b) In the 20 cities with highest PM2.5 exposures, residents in cities from India, Nigeria, Peru,	II. yet	e) China has seen the greatest improvements.
c) India and Indonesia have seen the most severe increase in PM2.5 pollution,	III. whereas	f) Bangladesh are exposed to PM 2.5 levels that are several-fold higher than the global averages.

A. b-I-f and c-III-e

B. b-I-f, a-II-d and c-III-e

C. b-I-f

D. a-II-d

E. c-III-e

Directions (4-8): Rearrange the following sentences in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

(A) Rights groups have condemned the move, saying that the designation would complicate aid efforts as the Houthis control a sizable part of Yemen, including the capital.

(B) *Yemen, one of the poorest (i)/ Arab countries, into a humanitarian catastrophe (ii)/ Donald Trump continued that policy, overlooking (iii)/ the disastrous effects of the war that has turned (iv).*

(C) After five years of fighting, the United Arab Emirates pulled out of the war last year.

(D) The U.S. offered support to Saudi Arabia's campaign against the Houthi rebels in Yemen when Barack Obama was the President.

(E) This is part of his larger attempts to rewrite the U.S.'s West Asia policy which, under Mr. Trump, was almost entirely focused on **containing** Iran. The administration's message seems to have reached Riyadh.

(F) Mr. Biden has now taken a different line, initiating steps to remove the Houthis from the terror list, among other actions.

(G) In its last hours, the Trump State Department designated the Houthis, who are backed by Iran, as a terrorist organisation.

4) Which of the above given sentences is not related to the central theme of the paragraph?

- A.D
- B.B
- C.F
- D.C
- E.A

5) Which of the following words will replace the highlighted word “CONTAINING” to infer the similar meaning?

- A. Exempting
- B. Subduing
- C. Discharging
- D. Delivering
- E. None of these.

6) In the sentences given above one of them is italicized and has been divided into four parts and may not be given meaningfully .You have to choose a suitable arrangement to form a meaningful sentence.

- A. (ii) (i) (iv) (iii)
- B. (iii) (i) (ii) (iv)
- C. (ii) (iv) (i) (iii)
- D. (iii) (iv) (i) (ii)
- E. None of these.

7) Which of the following is the final suitable arrangement after eliminating odd sentences which are not related to the central theme of the paragraph?

- A.DGABCE
- B.DBGAFE
- C.AFEGBC

- D.BADCGE
- E.BFDEDA

8) In the sentence (A) given above has been given with bold. One part may or may not contain errors so you have to find which part has error?

- A. Rights groups have condemned the move, saying
- B. That the designation would complicate
- C. Aide efforts as the Houthis control a sizeable
- D. Part of Yemen, including the capital.
- E. No Error.

Directions (9-11): In each of the questions given below, a paragraph has been given from which a sentence/ phrase has been omitted. Identify the most suitable sentence/ phrase to fill in the given blank so as to complete the paragraph in contextually meaningful and grammatically correct manner.

9) The Maharashtra government must opt for measures that are effective rather than expedient. It must consider more creative and flexible alternatives to a lockdown, to tackle the rising number of Covid-19 cases. Lockdown is relatively easy to enforce but has massive adverse impacts. The second wave _____.

- A.With rising numbers of Covid cases should opt for targeted containment, limiting congregations.
- B.Reminding people that these protocols are essential even after vaccination.
- C.Is not overwhelmed giving the state government room to contain the spread of Covid.

D. Should develop management plans with appropriate levels of restrictions for these hotspots, limiting public and large indoor gatherings

E. Is manifesting as more infectious, but minus a proportionate rise in hospitalization.

10) The wolves are full and the sheep, intact — that Russian saying about reconciling seemingly contradictory goals fits the foreign policy challenge before India and Russia,

_____, even as India meshes into the Quad, along with the US, Japan and Australia, to keep the Indo-Pacific tranquil, and Russia draws closer to China.

A. Part of the evolution of what has been a long and time-tested relationship.

B. As they renew tried and tested bilateral relations

C. Challenge is less daunting than it might appear at first blush.

D. The past should inform policy, not block its evolution.

E. None of these.

11) It is welcome that the Maoists have released the lone CoBRA force commando they had taken captive after an ambush in Chhattisgarh's Bastar region that left 22 members of the paramilitary Central Reserve Police Force dead. But that does not mean that _____ and resort to force.

A. Romantic notions of the Maoists as liberators of oppressed villagers have little basis

B. The presence of the security forces, enabling them to strike and kill trained security personnel

C. There is room for any compromise with the Maoists' rejection of democratic politics

D. The form of surrender by the armed insurgents and adoption of democratic forms of politics

E. None of these.

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Answer Key with Explanation

1) Answer: D

The correct match is- a-II-f and c-III-d

a-II-f- The Enforcement Directorate conducted searches at some locations in Mumbai **in connection with** the Rs 1,034 crore Patra Chawl land scam case.

We use “**in connection with**” for expressing a relationship of one thing with another.

c-III-d- Flood alerts have been issued in several places across the country **due to** heavy rain and the release of dam water into rivers.

We use “**due to**” to show cause-and-effect relationships and function in the same way.

Hence **option D** is the correct answer.

2) Answer: E

The correct match is- a-I-e, b-II-f and c-III-d

a-I-e- Indian Railways announced new luggage rules, as a result of which train passengers will now have to either limit their luggage, **or** will have to pay more for carrying extra baggage while travelling.

We use “**or**” to connect two or more possibilities or alternatives.

b-II-f- Railways have fixed a limit on luggage according to each coach, **such that** heavy goods ranging from 40 kg to 70 kg can be kept in the train compartment.

We use “**such that**” to give reason.

c-III-d - Passengers will now have to pay extra **if** they want to carry goods weighing more than the standard fixed by the railway.

We use “**if**” to introduce a possible or unreal situation or condition.

Hence **option E** is the correct answer.

3) Answer: A

The correct match is- b-I-f and c-III-e

b-I-f- In the 20 cities with highest PM2.5 exposures, residents in cities from India, Nigeria, Peru, **and** Bangladesh are exposed to PM 2.5 levels that are several-fold higher than the global averages.

We use “**and**” conjunction between words, phrases etc in order to connect them together.

c-III-e- India and Indonesia have seen the most severe increase in PM2.5 pollution, **whereas** China has seen the greatest improvements.

We use “**whereas**” to indicate a contrast between two facts or ideas.

Hence **option A** is the correct answer.

4) Answer: D

Statement C doesn't belong to the central theme of the passage.

Here, the paragraph after rearrangement expresses the idea of the policy followed by the Trump and Biden administration in context of Houthi rebels in Yemen. Initial sentences have discussed the stance of the Trump administration and the latter sentences have mentioned the departure from the policy that was being followed. Finally sentence (E) has mentioned the reason for

the steps taken under Biden administration. The correct rearrangement is-

(D) The U.S. offered support to Saudi Arabia's campaign against the Houthi rebels in Yemen when Barack Obama was the President.

(B) Donald Trump continued that policy, overlooking the disastrous effects of the war that has turned Yemen, one of the poorest Arab countries, into a humanitarian catastrophe.

(G) In its last hours, the Trump State Department designated the Houthis, who are backed by Iran, as a terrorist organisation.

(A) Rights groups have condemned the move, saying that the designation would complicate aid efforts as the Houthis control a sizable part of Yemen, including the capital.

(F) Mr. Biden has now taken a different line, initiating steps to remove the Houthis from the terror list, among other actions.

(E) This is part of his larger attempts to rewrite the U.S.'s West Asia policy which, under Mr. Trump, was almost entirely focused on containing Iran. The administration's message seems to have reached Riyadh.

5) Answer: B

Containing- control or restrain (oneself or a feeling).

Subduing- bring (a country or people) under control by force.

6) Answer: D

The correct rearrangement of the given parts of the sentence will be (iii) (iv) (i) (ii). The statement will be-

Donald Trump continued that policy, overlooking the disastrous effects of the war that has turned Yemen, one of the poorest Arab countries, into a humanitarian catastrophe.

7) Answer: B

Here, the paragraph after rearrangement expresses the idea of the policy followed by the Trump and Biden administration in context of Houthi rebels in Yemen. Initial sentences have discussed the stance of the Trump administration and the latter sentences have mentioned the departure from the policy that was being followed. Finally sentence (E) has mentioned the reason for the steps taken under Biden administration. The correct rearrangement is-

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8) Answer: C

Here, the error is in (c) where 'aide' will be replaced with 'aid'.

Aide- a person who acts as an assistant a teacher's aide specifically.

Aid- help, typically of a practical nature.

9) Answer: E

Here, only (e) can fit in the blank because the rest of the sentences suggest the measures that can be taken by the government. Hence, only (e) falls in line with the context of the paragraph which also makes the paragraph grammatically correct.

Also, (b) will make the statement incomplete. In case 'is' was placed before 'reminding' it could fit in the given blank.

10) Answer: B

Here, only 'as they renew tried and tested bilateral relations' can fit in for which the hint can be drawn from the latter part which mentions 'even as India meshes into the Quad' which indicates that the friendship is renewing even if India is now a part of Quad group, of which Russia isn't a member. Hence, only (b) falls in line with the context of the paragraph which also makes the paragraph grammatically correct.

11) Answer: C

Here, only 'there is room for any compromise with the Maoists' rejection of democratic politics' can fit into make the paragraph grammatically correct and contextually meaningful.

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