

SBI PO Pre 2023 (1st Nov) Shift-wise PYP Mock-04

Q1. Why has cyber security evolved to be the prime priority for an organisation?

Read the passage to answer the following questions.

As enterprises, the government and public moving towards digitalization, cybersecurity has become pivotal to their basic functioning nowadays. Cyberattacks have been on the rise over the past 12-18 months, affecting businesses of all nature and sizes, where the safety of the data network is essential to their operations. As a result, cybersecurity has come to occupy a prime position in a company's list of governance priorities. As more companies shifted to work from home, there were database breaches and hackings, leading to loss of revenue opportunity across industries. Even systems believed to be highly secure could be breached in cyberattacks. Reports say almost 26,000 Indian websites were hacked in the 10-month period ended October. The hackers had been operating from different parts of the world with hidden identities.

While weak passwords are the common cause for such attacks, systems with unprotected or unchanged passwords are highly vulnerable. Second, different types of malwares in many cases hidden in another type of document only waiting to be executed by the target user. Third, working in unsecured environments such as a common Wi-Fi network to access private emails and USB drives may prove risky. The onus is on the organisation to take steps to prevent and counter potential threats. They should educate their employees to create strong passwords, follow proper protocols in keeping passwords secure. Also, an organisation should regularly ensure that its firewalls are capable to resist any malware attack, by installing regular software updates. This is also why virtual private networks are being insisted upon in organisations.

Internal threats could be a result of employee negligence or ignorance, while external threats could be from former employees, competitors, and hackers who steal corporate data and money through spoofing and phishing. These would obviously lead to reputational damage, financial loss, litigation, regulatory probes, and above all, loss of clients and thereby revenue. Ransomware attacks continue to evolve in the market, with the past 8-10 months witnessing the highest number of threats of sensitive data exposure. A leading social network platform suffered a data breach, wherein millions of profiles containing email addresses, names, dates of birth, and phone numbers were sold on the dark Web.

There are cyber insurance solutions available in the market to protect against losses caused by cyberattacks, including first-party and third-party losses, and cyber extortion.

First-party insurance covers loss caused due to electronic theft, loss of electronic communication, e-vandalism, business interruption (income loss due to fraudulent access causing impairment of operations), and the like. Third-party loss covers disclosure liability (any customer claims due to system security failures resulting in unauthorized access), content liability (for alleged copyright infringement). Cyber extortion occurs when cybercriminals threaten to disable the operations of a target business or compromise its confidential data unless they receive a payment. Companies usually get cyber insurance solution to eliminate the risk, without willingly. Cyber insurance helps cover legal expenses _____ from damages due to a cyberattack. It should be part of the company's overall business continuity strategy, as it helps quickly recover post an incident.

- (a) Cyber security plays a pivotal role in those organisations where reliability of the data is prerequisite.
- (b) With organizations' continuous reliance on computerization, cybersecurity has taken the front row seat even for governing the day-to-day operations.
- (c) The potential data theft that resulted from the organizational shift, i.e., to work from home culture, could put the organisation at monetary risk.
- (d) Only (a) and (b)
- (e) All of these

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Q2. Which of the following can be listed as the cause of cyber-attack as mentioned in the passage?

Read the passage to answer the following questions.

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- (a) Data breach could happen to the systems that have unprotected or unchanged password as these are easily accessible and highly vulnerable.
- (b) Sometimes malware disguised or embedded within the targeted computer waiting to be executed by the end user.
- (c) Open or shared networks, such as common Wi Fi, are more entailed cyber attack
- (d) Only (b) and (c)
- (e) All of these

Q3. How organisations can safeguard themselves from malicious cyber threat?

Read the passage to answer the following questions.

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(a) By educating employees on common safety measures such as creating strong password and following prescribed protocols.

(b) By ensuring that their firewalls are equipped with proper updates to resist the malware attack.

(c) Organisations should be confided to virtual private network.

(d) Only (b) and (c)

(e) All of these

Q4. Which of the following is/are FALSE as per the given passage?

Read the passage to answer the following questions.

As enterprises, the government and public moving towards digitalization, cybersecurity has become pivotal to their basic functioning nowadays. Cyberattacks have been on the rise over the past 12-18 months, affecting businesses of all nature and sizes, where the safety of the data network is essential to their operations. As a result, cybersecurity has come to occupy a prime position in a company's list of governance priorities. As more companies shifted to work from home, there were database breaches and hackings, leading to loss of revenue opportunity across industries. Even systems believed to be highly secure could be breached in cyberattacks. Reports say almost 26,000 Indian websites were hacked in the 10-month period ended October. The hackers had been operating from different parts of the world with hidden identities.

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- (a) An internal threat can be defined as a former employee, competitor or hacker who access the organization's data to misuse them.
- (b) A cyber threat is any organizational damage, conceivably reputational or financial loss, litigation, whereby loss in revenue.
- (c) Within the span of 10 months, 26000 websites were reportedly being hacked in India.
- (d) Companies mostly get into cyber insurance solutions even though they don't want to
- (e) All are correct.

Q5. Which of the following does not come under the category of losses that cyber insurance solution covers?

Read the passage to answer the following questions.

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- (a) first party
- (b) second party
- (c) third party
- (d) cyber extortion
- (e) None of these

Q6. What is cyber extortion?

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- (a) Crime involves individuals within corporations or government bureaucracies deliberately altering data for either profit or political objectives.
- (b) When the attacker communicates through digital medium though the attack happened in real world.
- (c) It is a crime involving an attack or threat of an attack coupled with a demand for money in return for stopping or remediating the act.
- (d) Only (b) and (c)
- (e) All of these

Q7. Which of the following can fit into the given blank provided in the passage?

Read the passage to answer the following questions.

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- (a) devising
- (b) stemming
- (c) inventor
- (d) whittling
- (e) None of these

Q8. Which of the following can act as the antonym of "infringement"?

Read the passage to answer the following questions.

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- (a) compliance
- (b) tantamount
- (c) transgression
- (d) sabotage
- (e) None of these

Q9. Which of the following words can replace “fraudulent” from the given passage?

Read the passage to answer the following questions.

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- (a) prevaricate
- (b) allusive
- (c) deceitful
- (d) righteous
- (e) All of these

Q10. Which of the following statements is/are correct as per the given passage?

- (I) Cyber insurance helps organizations recover quickly post a cyberattack by covering legal expenses and damages.
- (II) Weak passwords and shared networks are highlighted as primary reasons for cyberattacks.
- (III) Internal threats are solely caused by hackers who access sensitive corporate data.

Read the passage to answer the following questions.

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- (a) Only (I) and (II)
- (b) Only (II) and (III)
- (c) Only (I)
- (d) All of these
- (e) Only (I) and (III)

Q11. India mainly depends on (A)/wheat for its daily meals (B)/ despite of many other kinds (C)/ of cereal available globally. (D)

Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is correct as it is, then choose option 'No error' as the answer response. (Ignore errors of punctuation, if any).

- (a) B
- (b) C
- (c) D
- (d) A
- (e) No error

Q12. He will return back (A)/ to India after (B)/ completing his degree (C)/ this year. (D)

Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is correct as it is, then choose option 'No error' as the answer response. (Ignore errors of punctuation, if any).

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q13. All the interesting (A)/ employees should (B)/ be invited and (C)/involved in the discussion. (D)

Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is correct as it is, then choose option 'No error' as the answer response. (Ignore errors of punctuation, if any).

- (a) B
- (b) D
- (c) A
- (d) C
- (e) No error

Q14. If he has come here, (A)/ I would have given (B)/him the amount he (C)/needed to pay his fees. (D)

Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is correct as it is, then choose option 'No error' as the answer response. (Ignore errors of punctuation, if any).

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

Q15. The Chinese produced (A)/ primarily cast coinage, (B)/ and this spread to (C)/ South-East Asia and Japan. (D)

Read the sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is correct as it is, then choose option 'No error' as the answer response. (Ignore errors of punctuation, if any).

- (a) D
- (b) C
- (c) B
- (d) A
- (e) No error

Q16.

- (A) one of the oldest of the
- (B) ayurveda is considered as
- (C) medicine accepted worldwide
- (D) traditional systems of

In the question below, a grammatically correct and meaningful sentence is given which is divided into four parts namely (A), (B), (C) and (D). Rearrange these four parts to make a contextually and grammatically meaningful sentence. If no such rearrangement is needed, mark 'No rearrangement required' as the answer choice.

- (a) DBAC
- (b) BADC
- (c) CDAB
- (d) ADCB
- (e) No rearrangement required

Q17.

- (A) warmth was needed,
- (B) such as China and Japan
- (C) wood was the earliest fuel used in
- (D) places where only moderate

In the question below, a grammatically correct and meaningful sentence is given which is divided into four parts namely (A), (B), (C) and (D). Rearrange these four parts to make a contextually and grammatically meaningful sentence. If no such rearrangement is needed, mark 'No rearrangement required' as the answer choice.

- (a) CDBA
- (b) BCAD
- (c) CDAB
- (d) ADCB
- (e) No rearrangement required

Q18.

- (A) in medicine to provide
- (B) to keep abreast of evolving knowledge
- (C) all practitioners of medicine need
- (D) competent care to patients

In the question below, a grammatically correct and meaningful sentence is given which is divided into four parts namely (A), (B), (C) and (D). Rearrange these four parts to make a contextually and grammatically meaningful sentence. If no such rearrangement is needed, mark 'No rearrangement required' as the answer choice.

- (a) DBAC
- (b) BCAD
- (c) CDAB
- (d) CBAD
- (e) No rearrangement required

Q19. To some, this situation cries out for draconian measures to inject more competition.

In the sentence given below, four words have been highlighted which may be misspelt or inappropriate in their usage. Mark the erroneous word as the answer and if all the words are correct, then choose option 'No error' as the answer.

- (a) situation
- (b) inject
- (c) draconian
- (d) compation
- (e) No error

Q20. The objective of the reserch is to gain a better insight into labour market processes

In the sentence given below, four words have been highlighted which may be misspelt or inappropriate in their usage. Mark the erroneous word as the answer and if all the words are correct, then choose option 'No error' as the answer.

- (a) objective
- (b) reserch
- (c) insight
- (d) processes
- (e) No error

Q21. With parts of the pipes (1) being covered after laying of the canal (2) and construction material and debris strewn (3) along the banks, encroachers (4) are taking over the canal.

In the question below four words are given in bold. These

four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

- (a) 2-4 and 1-3
- (b) Only 2 - 4
- (c) No correction required
- (d) Only 1- 2
- (e) 1-4 and 2-3

Q22. People thronged the burial families (1) to offer a range of dishes and departed (2) to the deceased members of their ground (3) in a symbolic gesture of love towards the desserts (4) ones .

In the question below four words are given in bold. These

four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

- (a) 1-3 and 2-4
- (b) Only 1 -3
- (c) Only 2 -4
- (d) No correction required
- (e) 1-2 and 3-4

Q23. Authoritarian regimes, in strength (1), are static regimes where (2) a supreme leader assumes (3) know-it-all power and essence (4).

In the question below four words are given in bold. These four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

- (a) Only 2 -3
- (b) 1-3 and 2-4
- (c) 1 -4 only
- (d) No correction required
- (e) Only 2 -4

Q24. Indian news consumers' trust in lower (1) TV news channels is much private (2) than their belief in newspapers and yet source (3) continues to be the dominant news television (4).

In the question below four words are given in bold. These

four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

- (a) Only 2 -3
- (b) 1-2 and 3-4
- (c) 1 -4 only
- (d) No correction required
- (e) Only 2 -4

Q25. The Commission for Air Quality Management in NCR and the adjoining (1) areas (2) has developed a framework for the effective (3) prevention and control of stubble burning (4).

In the question below four words are given in bold. These

four words are may not be in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

- (a) Only 1 and 2
- (b) Only 1 and 3
- (c) 1-3 and 2-4
- (d) 1-4 and 2-3
- (e) No correction required

Q26. A good percentage of all homeless people suffer of some untreated mental affliction.

Which of the following phrases given below the sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark "No improvement required" as the answer.

- (a) from some untreated mental
- (b) from some untreated mind
- (c) with some untreat mental
- (d) with untreated mind
- (e) No improvement required

Q27. Although the government claims the unemployment rate is decreasing, there is still a paucity of jobs available.

Which of the following phrases given below the sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark "No improvement required" as the answer.

- (a) is decreased, there are still a
- (b) decreasing, their is still a
- (c) are decreasing, there is a
- (d) are decreased, there is still a
- (e) No improvement required

Q28. My financial advisor was helping me to pay up a massive amount from debt I incurred after medical school.

Which of the following phrases given below the sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark "No improvement required" as the answer.

- (a) pay a massive amount of
- (b) paying a massive amount from
- (c) to pay off a massive amount of
- (d) to pay with a massive amount of
- (e) No improvement required

Q29. When the king was accompany with his stalwart bodyguards, he felt safe walking among his people.

Which of the following phrases given below the sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark "No improvement required" as the answer.

- (a) is accompany with his
- (b) were accompanied by his
- (c) was accompanied by their
- (d) was accompanied by his
- (e) No improvement required

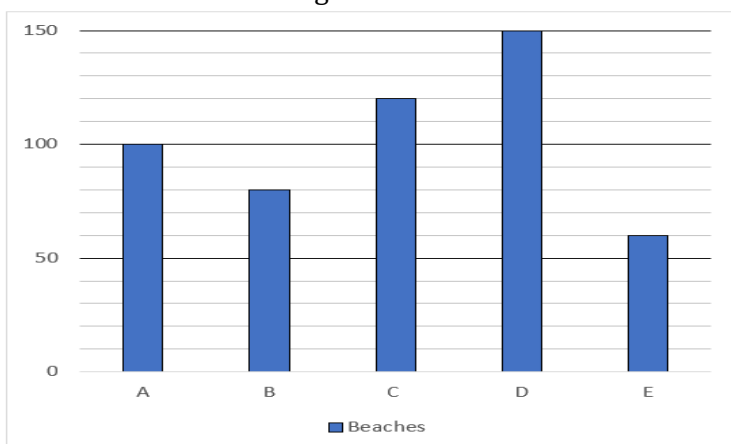
Q30. Since the prisoner couldn't coexist by another convicts, he spent a lot of time in solitary confinement.

Which of the following phrases given below the sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? Choose the best option among the five given alternatives that reflect the correct use of phrase in the context of the grammatically correct sentence. If the sentence is correct as it is, mark "No improvement required" as the answer.

- (a) coexists with other convict, he
- (b) coexisted among other convicts, he
- (c) coexist with other convicts, he
- (d) coexist within other convicts, it
- (e) No improvement required

Q31. The total number of mountains in F and D is in the ratio of 3:8 respectively. If the total number of beaches in F is 20% less than that in B, then find the total number of mountains and baches in F.

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.

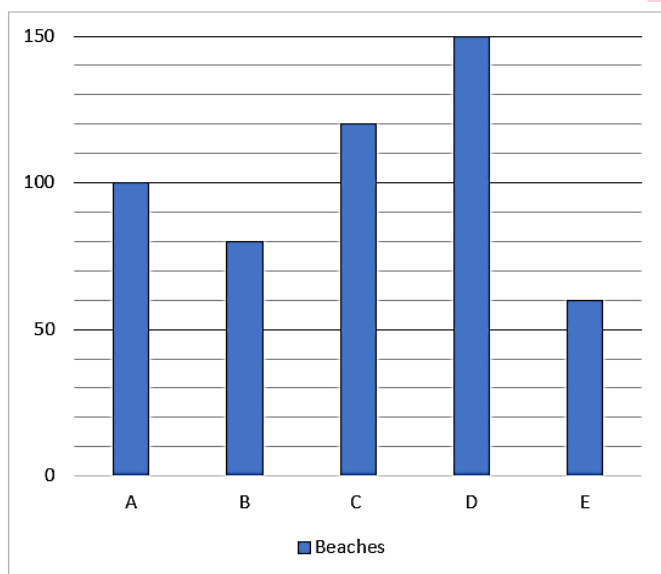


Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 298
(b) 289
(c) 294
(d) 283
(e) 281

Q32. Find the ratio between the total number of mountains in A and the difference between the number of mountains and beaches in C.

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.

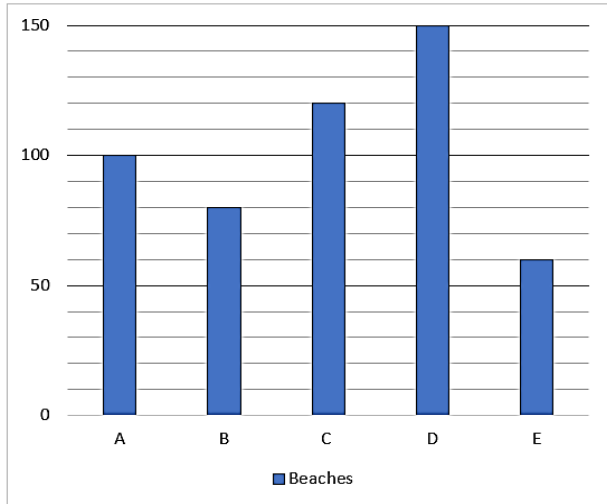


Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 5:3
(b) 4:5
(c) 3:4
(d) 6:5
(e) 7:3

Q33. The total number of mountains in A is what percentage more or less than the average number of beaches in B and C?

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.

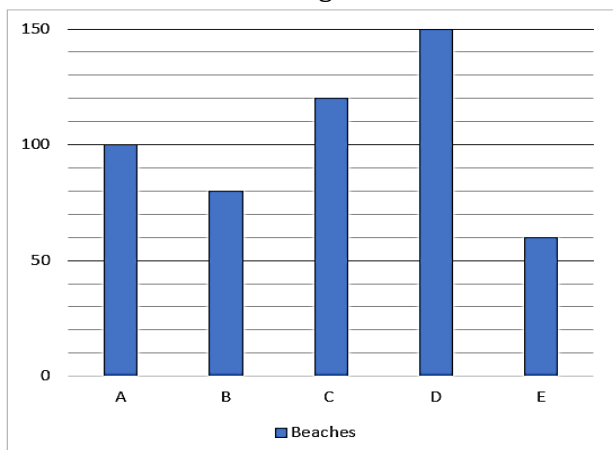


Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 33.33%
- (b) 16.67%
- (c) 75%
- (d) 25%
- (e) 50%

Q34. Find the difference between the average number of beaches in D, E and C and the average number of mountains in B, A and E.

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.

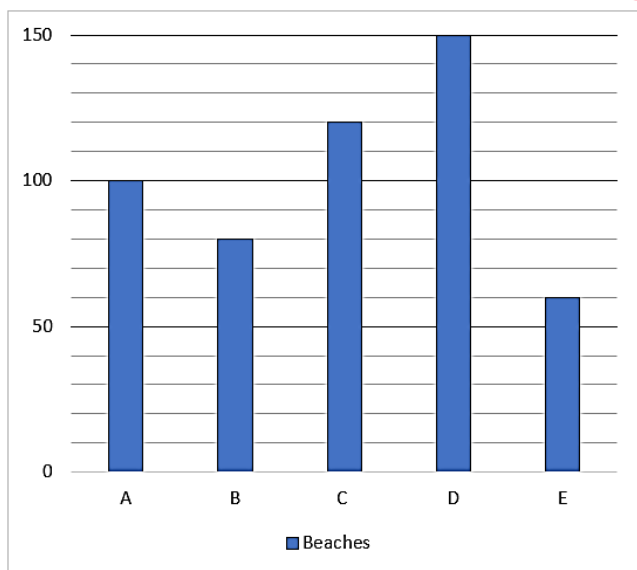


Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 20
- (b) 30
- (c) 50
- (d) 40
- (e) 60

Q35. The ratio of fold to block mountains in D is 3:5 respectively. If the number of fold mountains in A is one-fifth that of in D, then the block mountains in A is what percentage of the total number of fold mountains in A and D together (approx.)?(Note: Mountains are either fold or block)

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.

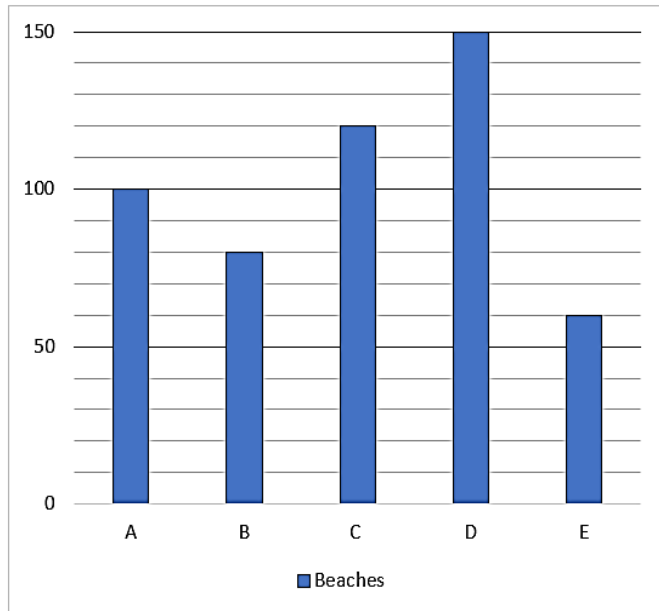


Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 48%
- (b) 43%
- (c) 39%
- (d) 23%
- (e) 29%

Q36. 25% of the total number of beaches in C are rocky, and the remaining are sandy. If the average number of sandy beaches in C and E is 60, then find the number of rocky beaches in E and C together.

Read the following bar graph and table carefully and answer the questions given below. The bar graph shows total number of beaches in five different countries. The table shows percentage of mountains out of total beaches and mountains together in these countries.



Countries	Percentage of mountains out of total beaches and mountains together
A	60%
B	75%
C	20%
D	80%
E	50%

- (a) 90
- (b) 120
- (c) 60
- (d) 45
- (e) 75

Q37. A, B, and C together can complete a piece of work in $12 \frac{3}{5}$ days, while A and C together can finish it in 14 days. Find in how many days B alone can complete 66.67% of the same work.

- (a) 90 days
- (b) 84 days
- (c) 73 days
- (d) 79 days
- (e) None of these

Q38. The length and breadth of a rectangle are in the ratio 4:3, respectively. When the length of the rectangle is increased by 30% and the breadth remains the same, the area of the rectangle increases by 360 sq m. Find the original length (in meters) of the rectangle.

- (a) 10
(b) 20
(c) 40
(d) 30
(e) 50

Q39. The average cost price of two articles, X and Y is Rs 1600. Article X is sold at a 15% profit, and article Y is sold at a 25% profit. The total selling price of articles X and Y is Rs 3800. If article Y is sold at a 50% profit, find the new selling price of article Y (in Rs).

- (a) 1800
(b) 1150
(c) 1450
(d) 1500
(e) 1700

Q40. R and S started a business by investing Rs 20000 and Rs $(20000+y)$, respectively. After six months, S withdrew 30% of his initial investment. At the end of the year, the total profit was Rs 13200, and the profit share of S was Rs 6800. Find the value of $3y$.

- (a) 5000
(b) 15000
(c) 10000
(d) 1500
(e) 12000

Q41. Find the ratio between the total number of diesel cars sold by A and B together and the total number of EV cars sold by C and D together.

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company.

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 32:15
(b) 31:18
(c) 29:18
(d) 19:29
(e) 21:23

Q42. The total number of petrol cars sold by C is what percentage more or less than the total number of EV cars sold by A?

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company .

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 28%
- (b) 52%
- (c) 55%
- (d) 48%
- (e) 63%

Q43. The total number of diesel cars sold by B is how many more or less than the total number of petrol cars sold by C.

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company .

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 69
- (b) 62
- (c) 49
- (d) 53
- (e) 41

Q44. The total number of defective to non-defective EV cars sold by D is in the ratio of 3:4 respectively. The total number of defective petrol cars sold D is three times more than that of defective EV cars sold. Find the total number of non- defective EV and petrol cars sold by D.

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company .

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 129
(b) 124
(c) 122
(d) 109
(e) 114

Q45. The total number of petrol cars sold by E is 33.33% more than that of the total number of EV cars sold by C. If the total number of diesel cars sold by E is two-fifths of the total number of petrol cars sold by D and the total number of cars sold by E is two times that of A, then find the difference between the total number of EV cars sold by E and the total number of diesel cars sold by C.

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company .

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 688
(b) 388
(c) 488
(d) 288
(e) 788

Q46. . The total number of EV and petrol cars sold by A is how many more or less than the half of the total number of petrol cars sold by B and D.

Read the following table carefully and answer the questions given below. The table shows the total number of cars (EV, Diesel and petrol) sold and the percentage of EV cars sold out of the total cars sold by four different companies. The table also shows the difference between the petrol and diesel cars sold by these four companies.

Note: Petrol cars sold are more than the diesel cars sold by each company .

Companies	Total number of cars sold	Percentage of EV cars sold	Difference between the petrol and the diesel cars sold
A	400	25%	70
B	550	10%	85
C	360	30%	52
D	280	15%	102

- (a) 55
(b) 40
(c) 60
(d) 50
(e) 90

Q47. A woman invested Rs Y in Scheme P and Rs $Y+500$ in Scheme Q. The rate of interest for Scheme P is 8% p.a., and for Scheme Q is 10% p.a. If the total interest she received after three years from Scheme P and after two years from Scheme Q is Rs 452, find Y . (Both schemes offered Simple interest)

- (a) 1000
- (b) 1200
- (c) 700
- (d) 500
- (e) 800

Q48. Vessel P contains 200 liters of a mixture of milk and water in which water is 35%. y liters of the mixture are taken out, where the quantity of water in y liters is 21 liters. This y liters are then poured into vessel Q, which already contains y liters of water. Find the difference between the quantity of milk and water in the resultant mixture of vessel Q (in liters).

- (a) 33
- (b) 54
- (c) 29
- (d) 42
- (e) 37

Q49. A boat takes a total of 35 hours to cover 300 km downstream and 200 km upstream. The downstream speed of the boat is 10 km/hr more than its upstream speed. Find the time taken by the boat to cover 600 km downstream.

- (a) 30 hours
- (b) 28 hours
- (c) 33 hours
- (d) 36 hours
- (e) 32 hours

Q50. The average weight of 20 boys and 10 girls in a class is 50 kg. If the weight of all the girls is excluded, the average weight of the remaining students decreases by 5 kg. Find the average weight of all 10 girls.

- (a) 60 kg
- (b) 40 kg
- (c) 45 kg
- (d) 75 kg
- (e) 50 kg

Q51. Train A travels at a speed of 72 km/hr and crosses a 500-meter-long platform in 50 seconds. After crossing the platform, it encounters train B moving in the opposite direction at a speed of 54 km/hr. If both trains completely pass each other in 24 seconds, then find the length of the train B.

- (a) 280
- (b) 340
- (c) 420
- (d) 350
- (e) 290

Q52. The average of five consecutive even numbers is 8 less than the average of four consecutive odd numbers. If the sum of the smallest odd number and the smallest even number is 33, then find the difference between the second largest odd number and the second smallest even number.

- (a) 5
- (b) 11
- (c) 12
- (d) 14
- (e) 8

Q53. The population of a village in 2020 is 15,000. If it is increased in 2021 by 15%, decreased in 2022 by 10%, and increased in 2023 by X% and the population in 2023 is 18630, then find X.

- (a) 10
- (b) 15
- (c) 30
- (d) 25
- (e) 20

Q54. The average weight of 15 students in a class is 60 kg. The average weight of the first 8 students is 58 kg, and the average weight of the last 5 students is 63 kg. If the ratio of the weights of the 9th and 10th students is 7 : 4, find the weight of the 9th student.

- (a) 81 kg
- (b) 79 kg
- (c) 73 kg
- (d) 72 kg
- (e) 77 kg

Q55.

I. $x^2 + 10x + 21 = 0$

II. $y^2 + 11y + 24 = 0$

In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q56.

I. $x^2 - 17x + 72 = 0$

II. $y^2 - 9y + 18 = 0$

In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q57.

I. $x^2 - 26x + 165 = 0$

II. $y^2 - 13y + 40 = 0$

In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q58.

I. $x^2 + 15x + 50 = 0$

II. $y^2 + 20y + 99 = 0$

In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q59.

I. $x^2 - 14x + 48 = 0$

II. $y^2 - 20y + 96 = 0$

In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answers.

- (a) If $x > y$
- (b) If $x \geq y$
- (c) If $x < y$
- (d) If $x \leq y$
- (e) If $x = y$ or no relation can be established between x and y

Q60. The present age ratio of C to D is 4:5. Y years ago, the ratio of their ages was 3:4. The sum of their ages after Y years will be 66. Find the present age of D.

- (a) 34 years
- (b) 28 years
- (c) 24 years
- (d) 22 years
- (e) 30 years

Q61. 14.982% of $740.25 - 64.87\%$ of $800.26 = 552.21 - ?$

What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)

- (a) 31
- (b) 38
- (c) 34
- (d) 39
- (e) 32

Q62.

$$\frac{4.12}{7.09} \div 63.88 \times 48.99 = ?$$

What approximate value will come in place of question mark (?) in the following questions (You are not expected to calculate the exact value).

- (a) 9/16
- (b) 5/16
- (c) 3/16
- (d) 7/16
- (e) 11/16

Q63. 37.5% of 959.96 = 5600.05 ÷ 6.85 - (? × 2.12)

What approximate value will come in the place of question (?) mark in the following given questions?

- (a) 205
- (b) 300
- (c) 159
- (d) 220
- (e) 196

Q64. 240.012% of 19.99 + 117.23 ÷ √81.099 + ? = 220.088

What approximate value should come in the place of question (?) mark in the following questions.

- (a) 139
- (b) 128
- (c) 179
- (d) 159
- (e) 239

Q65. 380.380 + 619.99 - 190.011% of 820.21 = ? - 120.21 × √24.95

What approximate value should come in the place of question (?) mark in the following questions.

- (a) 42
- (b) 54
- (c) 32
- (d) 24
- (e) 14

Q66. Who among the following likes grey colour? Study the following information carefully and answer the questions given below:

Six persons –P, Q, R, S, T and U are living on different floors of the six-storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on. Each of them likes different colours- Red, Blue, Grey, Black, Pink and White but not necessarily in the same order. Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Only one floor is between Q and the one who likes pink colour. The one who likes Pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red.

- (a) The one who lives on the topmost floor
 (b) Q
 (c) The one who lives on the second floor
 (d) T
 (e) None of these

Q67. Which among the following combination is correct? Study the following information carefully and answer the questions given below:

Six persons –P, Q, R, S, T and U are living on different floors of the six-storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on. Each of them likes different colours- Red, Blue, Grey, Black, Pink and White but not necessarily in the same order. Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Only one floor is between Q and the one who likes pink colour. The one who likes Pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red.

- (a) R- Red
 (b) Q- Grey
 (c) P-White
 (d) S- Black
 (e) None of these

Q68. What is the sum of the floor numbers of Q and the one who likes pink colour live? Study the following information carefully and answer the questions given below:

Six persons –P, Q, R, S, T and U are living on different floors of the six-storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on. Each of them likes different colours- Red, Blue, Grey, Black, Pink and White but not necessarily in the same order. Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Only one floor is between Q and the one who likes pink colour. The one who likes Pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red.

- (a) 6
 (b) 8
 (c) 11
 (d) 7
 (e) 5

Q69. Which among the following statement(s) is/are true?

- I. T lives above R II. Q lives on an odd numbered floor
 III. R lives on the adjacent floor of Q

Study the following information carefully and answer the questions given below:

Six persons –P, Q, R, S, T and U are living on different floors of the six-storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on. Each of them likes different colours- Red, Blue, Grey, Black, Pink and White but not necessarily in the same order. Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white.

Only one floor is between Q and the one who likes pink colour. The one who likes Pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red.

- (a) Only I
- (b) Only III
- (c) Both I and III
- (d) Both II and III
- (e) Only II

Q70. . Who among the following lives on 4th floor? Study the following information carefully and answer the questions given below:

Six persons –P, Q, R, S, T and U are living on different floors of the six-storey building such that the lowermost floor is numbered as one and the floor immediately above it is numbered as two and so on. Each of them likes different colours- Red, Blue, Grey, Black, Pink and White but not necessarily in the same order. Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Only one floor is between Q and the one who likes pink colour. The one who likes Pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red.

- (a) Q
- (b) The one who likes blue
- (c) T
- (d) The one who likes white
- (e) U

Q71. Statements: Only speech is language

Some debate is speech

All debate is practice

Conclusions: I. Some speech is not practice

II. All debate can be language In each question below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions definitely follows from the given statements, disregarding commonly known facts. Give an answer.

- (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

Q72. Statements: All carrot are beetroot

Only a few beetroot is cabbage

No cabbage is bean

Conclusions: I. All beetroot can be bean

II. Some carrot is bean In each question below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions definitely follows from the given statements, disregarding commonly known facts. Give an answer.

- (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

Q73. Statements: Some month is date

Only a few year is date

All year is day

Conclusions: I. All day being month is a possibility

II. Some year is not date In each question below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions definitely follows from the given statements, disregarding commonly known facts. Give an answer.

- (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

Q74. Statements: All browser is app

Only a few design is app

No design is template

Conclusions: I. No browser is template

II. All design can never be app

In each question below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions definitely follows from the given statements, disregarding commonly known facts. Give an answer.

- (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

Q75. If all the persons sit in alphabetical order in clockwise direction starts from A then the position of how many persons remains unchanged (excluding A)? Study the following information carefully and answer the questions given below:

Eight persons- A, B, C, D, E, F, G and H sit around a rectangular 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 but not necessarily in the same order.

F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Only two persons sit between E and D. C sits third to the right of D. Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

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

Q76. Four of the following five are alike in a certain way and thus form a group. Find the one which doesn't belong to the group? Study the following information carefully and answer the questions given below:

Eight persons- A, B, C, D, E, F, G and H sit around a rectangular 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 but not necessarily in the same order.

F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Only two persons sit between E and D. C sits third to the right of D. Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

- (a) B
- (b) H
- (c) D
- (d) F
- (e) A

Q77. Which among the following statement(s) is/are true?

I. A sits adjacent to D

II. C doesn't sit at the shorter side

III. B faces F Study the following information carefully and answer the questions given below:

Eight persons- A, B, C, D, E, F, G and H sit around a rectangular 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 but not necessarily in the same order.

F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Only two persons sit between E and D. C sits third to the right of D. Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

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

Q78. Who among the following sits opposite to D?

Study the following information carefully and answer the questions given below:

Eight persons- A, B, C, D, E, F, G and H sit around a rectangular 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 but not necessarily in the same order.

F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Only two persons sit between E and D. C sits third to the right of D. Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

- (a) The one who sits immediate left of F
- (b) C
- (c) The one who sits second to the right of G
- (d) The one who sits immediate right of E
- (e) None of these

Q79. . Who among the following sits second to the right of A?

Study the following information carefully and answer the questions given below:

Eight persons- A, B, C, D, E, F, G and H sit around a rectangular 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 but not necessarily in the same order.

F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Only two persons sit between E and D. C sits third to the right of D. Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

- (a) B
- (b) G
- (c) C
- (d) E
- (e) D

Q80. Find the odd one out.

- (a) ZYW
- (b) MLJ
- (c) SRP
- (d) EDA
- (e) FEC

Q81. In which direction is Karan's initial position with respect to Rohan's final position? Study the following information carefully and answer the questions given below:

Rohan starts walking from point W in the east direction after walking 3m he reaches at point P. From there he takes a right turn and walks 2m to reach at point V. From point V he takes a left turn and walks 5m to reach at point S. From point S he takes left turn and walks point 7m to reach at point X. Karan starts walking from point Q in south direction after walking 5m he reaches at point U. From there he takes a right turn and walks 6m to reach at point R. From there he takes again right turn and walks 12m to reach at point T. Now, from point T he takes a left turn and walks 4m to reach at point X.

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

Q82. Four of the following five are alike in a certain way and thus form a group. Find the one which doesn't belong to the group? Study the following information carefully and answer the questions given below:

Rohan starts walking from point W in the east direction after walking 3m he reaches at point P. From there he takes a right turn and walks 2m to reach at point V. From point V he takes a left turn and walks 5m to reach at point S. From point S he takes left turn and walks point 7m to reach at point X. Karan starts walking from point Q in south direction after walking 5m he reaches at point U. From there he takes a right turn and walks 6m to reach at point R. From there he takes again right turn and walks 12m to reach at point T. Now, from point T he takes a left turn and walks 4m to reach at point X.

- (a) W,V
- (b) X,R
- (c) P,X
- (d) X,U
- (e) T,Q

Q83. Which among the following statement(s) is/are true? I. Total distance covered by Karan is more than the total distance covered by Rohan. II. Point W is in the west of point Q III. The shortest distance between point T and point S is $\sqrt{65}$ m Study the following information carefully and answer the questions given below:

Rohan starts walking from point W in the east direction after walking 3m he reaches at point P. From there he takes a right turn and walks 2m to reach at point V. From point V he takes a left turn and walks 5m to reach at point S. From point S he takes left turn and walks point 7m to reach at point X. Karan starts walking from point Q in south direction after walking 5m he reaches at point U. From there he takes a right turn and walks 6m to reach at point R. From there he takes again right turn and walks 12m to reach at point T. Now, from point T he takes a left turn and walks 4m to reach at point X.

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

Q84. . What is the shortest distance between point R and point P?

Study the following information carefully and answer the questions given below:

Rohan starts walking from point W in the east direction after walking 3m he reaches at point P. From there he takes a right turn and walks 2m to reach at point V. From point V he takes a left turn and walks 5m to reach at point S. From point S he takes left turn and walks point 7m to reach at point X. Karan starts walking from point Q in south direction after walking 5m he reaches at point U. From there he takes a right turn and walks 6m to reach at point R. From there he takes again right turn and walks 12m to reach at point T. Now, from point T he takes a left turn and walks 4m to reach at point X.

- (a) $\sqrt{130}$ m
- (b) 130m
- (c) $\sqrt{165}$ m
- (d) 165m
- (e) None of these

Q85. U is nephew of D who is sibling of B. R has two children. B is only son of M who is spouse of R. K is mother of U. Gender of K and M is same. How R is related to U?

- (a) Father
- (b) Son-in-law
- (c) Grandfather
- (d) Son
- (e) None of these

Q86. How many persons are designated between U and the one who is immediately junior to T? Study the following information carefully and answer the questions given below:

Nine persons - P, Q, R, S, T, U, V, W and X are working in the company at different designations such as MD, CEO, CFO, CRO, COO, GM, DM, HR and TL but not necessarily in the same order. The designations are given in decreasing order, such that MD is the senior-most designation and TL is the junior-most designation.

X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Only three persons are designated between S and T. P is two persons junior to T. The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL.

- (a) Five
- (b) Four
- (c) Six
- (d) Seven
- (e) Three

Q87. If all the persons are arranged in alphabetical order from senior most to junior most designation, then the position of how many persons remains unchanged?

Study the following information carefully and answer the questions given below:

Nine persons - P, Q, R, S, T, U, V, W and X are working in the company at different designations such as MD, CEO, CFO, CRO, COO, GM, DM, HR and TL but not necessarily in the same order. The designations are given in decreasing order, such that MD is the senior-most designation and TL is the junior-most designation.

X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Only three persons are designated between S and T. P is two persons junior to T. The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL.

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

Q88. Which among the following statement is false? Study the following information carefully and answer the questions given below:

Nine persons - P, Q, R, S, T, U, V, W and X are working in the company at different designations such as MD, CEO, CFO, CRO, COO, GM, DM, HR and TL but not necessarily in the same order. The designations are given in decreasing order, such that MD is the senior-most designation and TL is the junior-most designation.

X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Only three persons are designated between S and T. P is two persons junior to T. The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL.

- (a) U is junior to X
- (b) X is not designated as TL
- (c) R is immediately junior to X
- (d) T is senior to R
- (e) All are true

Q89. Who among the following is designated as GM? Study the following information carefully and answer the questions given below:

Nine persons - P, Q, R, S, T, U, V, W and X are working in the company at different designations such as MD, CEO, CFO, CRO, COO, GM, DM, HR and TL but not necessarily in the same order. The designations are given in decreasing order, such that MD is the senior-most designation and TL is the junior-most designation.

X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Only three persons are designated between S and T. P is two persons junior to T. The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL.

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

Q90. Which among the following combination is correct? Study the following information carefully and answer the questions given below:

Nine persons - P, Q, R, S, T, U, V, W and X are working in the company at different designations such as MD, CEO, CFO, CRO, COO, GM, DM, HR and TL but not necessarily in the same order. The designations are given in decreasing order, such that MD is the senior-most designation and TL is the junior-most designation.

X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Only three persons are designated between S and T. P is two persons junior to T. The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL.

- (a) W- MD
- (b) T- CFO
- (c) P- COO
- (d) S- DM
- (e) All are correct

Q91. Statements: $H \geq Q > J \leq L < R$; $F < P \geq Q > T \geq U$

Conclusions : I. $H > U$ II. $J < F$

In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If both conclusions I and II are true.
- (e) If neither conclusion I nor II is true.

Q92. Statements: $Z \geq Q \geq P = E \leq X < R$; $L \leq C < O = E \geq A$

Conclusions : I. $Q \geq C$ II. $A < Z$

In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If both conclusions I and II are true.
- (e) If neither conclusion I nor II is true.

Q93. Statements: $K < C \leq Y = L \geq E$; $I \geq M = Y > F \geq W$

Conclusions : I. $W < L$ II. $C \leq I$

In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If both conclusions I and II are true.
- (e) If neither conclusion I nor II is true.

Q94. Statements: $A \leq P > N \geq G=B$; $M > N \geq I = L < Q$

Conclusions : I. $L \leq G$ II. $G < M$

In these questions, the relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If either conclusion I or II is true.
- (d) If both conclusions I and II are true.
- (e) If neither conclusion I nor II is true.

Q95. If a meaningful word is formed by using the second, fourth, eighth and eleventh letters (from the left end) of the word "PARTICULARLY", then which of the following will be the third letter from the left end of the word thus formed. If more than one such word is formed mark Z as your answer. If no meaningful word is formed, mark X as your answer?

- (a) X
- (b) T
- (c) L
- (d) A
- (e) Z

Q96. How many persons sit between M and S? Study the following information carefully and answer the questions given below:

Seven persons -M, N, O, P, Q, R and S sit in a linear row and facing the north but not necessarily in the same order.

Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. O sits to the left of R.

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

Q97. If all the persons sit in alphabetical order from left to right then the position of how many persons remain unchanged?

Study the following information carefully and answer the questions given below:

Seven persons -M, N, O, P, Q, R and S sit in a linear row and facing the north but not necessarily in the same order.

Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. O sits to the left of R.

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

Q98. Four of the following five are alike in a certain way and thus form a group. Find the one which doesn't belong to the group? Study the following information carefully and answer the questions given below:

Seven persons -M, N, O, P, Q, R and S sit in a linear row and facing the north but not necessarily in the same order.

Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. O sits to the left of R.

- (a) M
- (b) O
- (c) Q
- (d) S
- (e) R

Q99. Which among the following statement(s) is/are true? I. O is the only neighbour of P II. N sits exactly between O and Q

III. More than one person sit to the right of Q

Study the following information carefully and answer the questions given below:

Seven persons -M, N, O, P, Q, R and S sit in a linear row and facing the north but not necessarily in the same order.

Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. O sits to the left of R.

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

Q100. If in the given number " 357986258" the digits at the odd position are increased by 1 then the digits are arranged in descending order from left to right then what is the product of the 4th digits from both the ends in the new number thus formed?

- (a) 72
- (b) 30
- (c) 42
- (d) 40
- (e) 49

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S1. Ans.(e)

Sol. By referring to the first paragraph of the passage, we can conclude that all the given options are true. Refer for better understanding, "As enterprises, the government and public moving towards digitalization, cybersecurity has become pivotal to their basic functioning nowadays. Cyberattacks have been on the rise over the past 12-18 months, affecting businesses of all nature and sizes, where the safety of the data network is essential to their operations. As a result, cybersecurity has come to occupy a prime position in a company's list of governance priorities. As more companies shifted to work from home, there were database breaches and hackings, leading to loss of revenue opportunity across industries."

S2. Ans.(e)

Sol. To validate the answer, refer to the second paragraph where it mentions "While weak passwords are the common cause for such attacks, systems with unprotected or unchanged passwords are highly vulnerable. Second, different types of malwares in many cases hidden in another type of document only waiting to be executed by the target user. Third, working in unsecured environments such as a common Wi-Fi network to access private emails and USB drives may prove risky."

S3. Ans.(e)

Sol. By referring to the last few segments of the second paragraph, we can conclude that all the given options are true. Hence, to confirm that refer, "The onus is on the organisation to take steps to prevent and counter potential threats. They should educate their employees to create strong passwords, follow proper protocols in keeping passwords secure. Also, an organisation should regularly ensure that its firewalls are capable to resist any malware attack, by installing regular software updates. This is also why virtual private networks are being insisted upon in organisations."

S4. Ans.(a)

Sol. After reading the passage thoroughly, we can conclude that all the given options are true except option (a). For option (a): To nullify this, refer to the third paragraph "Internal threats could be a result of employee negligence or ignorance, while external threats could be from former employees, competitors, and hackers who steal corporate data and money through spoofing and phishing."

For option (b): Refer to the third paragraph "These would obviously lead to reputational damage, financial loss, litigation, regulatory probes, and above all, loss of clients and thereby revenue."

For option (c): Refer to the first paragraph ". Reports say almost 26,000 Indian websites were hacked in the 10-month period ended October."

For option (d): Refer to the last paragraph "Companies usually get cyber insurance solution to eliminate the risk, without willingly"

S5. Ans.(b)

Sol. To validate the answer, refer to the section of the last paragraph "There are cyber insurance solutions available in the market to protect against losses caused by cyberattacks, including first-party and third-party losses, and cyber extortion."

S6. Ans.(c)

Sol. To validate the answer, refer to the last paragraph, "Cyber extortion occurs when cybercriminals threaten to disable the operations of a target business or compromise its confidential data unless they receive a payment."

S7. Ans.(b)

Sol. The following sentence suggested that cyber insurance covers all the damages that are caused due to cyber-attack. Thus, the suitable word for the given blank is “stemming”

Devising: plan or invent (a complex procedure, system, or mechanism) by careful thought.

Stemming: originate in or be caused by

Inventor: Who invented a particular process or device

Whittling: reduce something in size, amount, or extent by a gradual series of steps.

S8. Ans.(a)

Sol. “infringement” means “the action of breaking the terms of a law, agreement, etc.; violation.”

Thus, the word that can be the antonym of it is “compliance”

Compliance: the action or fact of complying with a wish or command.

Tantamount: equivalent in seriousness to; virtually the same as.

Transgression: an act that goes against a law, rule, or code of conduct; an offence.

Sabotage: deliberately destroy, damage, or obstruct (something)

S9. Ans.(c)

Sol. “Fraudulent” means “obtained, done by, or involving deception, especially criminal deception”.

Thus, the word can replace it is “deceitful”.

Prevaricate: speak or act in an evasive way.

Allusive: using or containing suggestion rather than explicit mention

Deceitful: guilty of or involving deceit; deceiving or misleading others.

Righteous: morally right or justifiable.

S10. Ans.(a)

Sol. Correct Answer: (a) Only (I) and (II)

Explanation:

Let's analyze the statements based on the passage:

- (I): Correct. The passage mentions that cyber insurance helps cover legal expenses and damages, aiding quick recovery post a cyberattack.
- (II): Correct. The passage highlights weak passwords and shared networks as major reasons for cyberattacks.
- (III): Incorrect. The passage states that internal threats can result from employee negligence or ignorance, not solely caused by hackers. External threats, on the other hand, involve hackers, former employees, or competitors.

Conclusion:

Only (I) and (II) are correct. Therefore, the correct answer is (a) Only (I) and (II).

S11. Ans.(b)

Sol. The error is in part (C). Here ‘of’ should be removed as ‘despite’ is never followed by ‘of’. The word despite is a preposition which takes a noun as its object, and it would be redundant to use another preposition with it.

S12. Ans.(a)

Sol. The error is in part (A). Use of ‘back’ after return is superfluous. Return itself means ‘come or go back to a place or person’.

S13. Ans.(c)

Sol. The correct answer is: (c) A

Explanation:

- "Interesting" in part A is incorrect. It describes something or someone that *causes interest* in others (e.g., "an interesting movie"). However, the sentence refers to employees who *feel interest* in being invited and involved in the discussion. The correct word is "interested."
- The rest of the sentence, including "in the discussion" in part D, is grammatically correct.

Corrected Sentence:

All the interested employees should be invited and involved in the discussion.

Interesting means arousing curiosity or interest; holding or catching the attention.

Interested means showing curiosity or concern about something or someone; having a feeling of interest.

S14. Ans.(a)

Sol. The correct answer is: (a) A

Explanation:

- The sentence contains a conditional clause, but the tenses are inconsistent. The correct structure for this type of hypothetical conditional is:

If + past perfect tense (to indicate an unreal past condition)

would have + past participle (to indicate the unreal result).

- "If he has come here" is incorrect because "has come" (present perfect) does not match the hypothetical context of "would have given."
- It should be "If he had come here."

Corrected Sentence:

If he had come here, I would have given him the amount he needed to pay his fees.

S15. Ans.(e)

Sol. The given sentence is error-free.

S16. Ans.(b)

Sol. The correct sequence of the phrases is 'BADC'. Therefore, the meaningful sentence will be, "Ayurveda is considered as one of the oldest of the traditional systems of medicine accepted worldwide."

S17. Ans.(c)

Sol. The correct sequence of the phrases is 'CDAB'. Therefore, the meaningful sentence will be, "Wood was the earliest fuel used in places where only moderate warmth was needed, such as China and Japan."

S18. Ans.(d)

Sol. The correct sequence of the phrases is 'CBAD'. Therefore, the meaningful sentence will be, "All practitioners of medicine need to keep abreast of evolving knowledge in medicine to provide competent care to patients."

S19. Ans.(d)

Sol. The correct answer is: (d) compation

Explanation:

- The word "compation" is misspelled. The correct spelling is "competition."

Corrected Sentence:

To some, this situation cries out for draconian measures to inject more competition.

S20. Ans.(b)

Sol. The correct answer is: (b) reserch

Explanation:

- The word "reserch" is misspelled. The correct spelling is "research."

Corrected Sentence:

The objective of the research is to gain a better insight into labour market processes.

S21. Ans.(d)

Sol. Here, 1-2 i.e., 'pipes – canal' will be replaced to make the sentence grammatically and contextually correct.

The sentence thus formed is: With parts of the canal being covered after laying of the pipes and construction material and debris strewn along the banks, encroachers are taking over the canal.

S22. Ans.(a)

Sol. Here, 1-3 and 2-4 i.e., 'families–ground' and 'departed- desserts' will be replaced to make the sentence grammatically and contextually correct.

The sentence thus formed is: People thronged the burial ground to offer a range of dishes and desserts to the deceased members of their families in a symbolic gesture of love towards the departed ones .

S23. Ans.(c)

Sol. Here, 1-4, i.e., 'strength– essence' will be replaced to make the sentence grammatically and contextually correct.

The sentence thus formed is: Authoritarian regimes, in essence, are static regimes where a supreme leader assumes know-it-all power and strength.

S24. Ans.(b)

Sol. Here, 1-2 and 3-4 i.e., 'lower–private' and 'source- television 'will be replaced to make the sentence grammatically and contextually correct.

Indian news consumers' trust in private TV news channels is relatively much lower than their belief in newspapers and yet television continues to be the dominant news source.

S25. Ans.(e)

Sol. The sentence is correct as it is and no correction is required. Hence, option (e) is the correct answer choice.

S26. Ans.(a)

Sol. The correct answer is: (a) from some untreated mental.

- "Suffer of" is incorrect usage. The correct preposition is "suffer from" when referring to afflictions or ailments.
- "Mental" is correctly paired with "affliction" in the original sentence.

Corrected sentence:

A good percentage of all homeless people suffer from some untreated mental affliction.

S27. Ans.(e)

Sol. The correct answer is: (e) No improvement required

- The original sentence is grammatically correct and makes logical sense. "Is decreasing" properly agrees with the subject "rate," and "there is still a paucity of jobs available" is correct in meaning and structure.

S28. Ans.(c)

Sol. The correct answer is: (c) to pay off a massive amount of

- "Pay up" is colloquial and not appropriate in this formal context. The correct expression is "pay off" when referring to repaying a debt.
- "Amount from debt" is incorrect; it should be "amount of debt."

Corrected sentence:

My financial advisor was helping me to pay off a massive amount of debt I incurred after medical school.

S29. Ans.(d)

Sol. The correct answer is: (d) was accompanied by his

- "Accompany with" is incorrect. The correct phrase is "accompanied by."
- "His" agrees with the subject "king," whereas "their" in option (c) is incorrect.

Corrected sentence:

When the king was accompanied by his stalwart bodyguards, he felt safe walking among his people.

S30. Ans.(c)

Sol. The correct answer is: (c) coexist with other convicts, he

- "Coexist" is followed by "with," not "by."
- "Another convicts" is incorrect; the plural "other convicts" is appropriate.

Corrected sentence:

Since the prisoner couldn't coexist with other convicts, he spent a lot of time in solitary confinement.

S31. Ans.(b)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

Total number of mountains in F = $600 + 3 = 225$

Total number of beaches in F = $80 + 100 = 180$

Required answer = $225 + 64 = 289$

S32. Ans.(a)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

Required ratio = $150 : (120 - 30) = 150 : 90 = 5:3$

S33. Ans.(e)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

Average number of beaches in B and C = $(80+120)/2=100$

Required percentage = $\frac{150-100}{100} \times 100 = 50\%$

S34. Ans.(d)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

The average number of beaches in D, E and C = $\frac{150+60+120}{3}=110$

The average number of mountains in B, A and E = $\frac{150+240+60}{3}=150$

Required difference = $150 - 110 = 40$

S35. Ans.(c)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

The number of fold mountains in D = $600 \times 38 = 225$

The number of block mountains in D = $600 \times 58 = 375$

The number of fold mountains in A = $225/5 = 45$

The number of block mountains in A = $150 - 45 = 105$

Required percentage = $\frac{105}{225+45} \times 100 = 38.89\% \approx 39\%$

S36. Ans.(c)

Sol. In city A

Total number of beaches = 100

Let the total number of beaches and mountains together be $5x$

So, the number of mountains = $5x - 100 = 3x$

The number of beaches = $5x - 3x = 2x$

$2x = 100$

$x = 50$

The number of mountains = $3x = 150$

Similarly,

Countries	Total beaches	Total mountains
A	100	150
B	80	240
C	120	30
D	150	600
E	60	60

The total number of rocky beaches in C = $25/100 \times 120 = 30$

The total number of sandy beaches in C = $120 - 30 = 90$

The total number of sandy beaches in E = $60 \times 2 - 90 = 30$

The total number of rocky beaches in E = $60 - 30 = 30$

Required sum = $30 + 30 = 60$

S37. Ans.(b)

Sol. Information Given:

A, B, and C together can complete a piece of work in $12 \frac{3}{5}$ days,

A and C together can finish it in 14 days

Basic Explanation:

Let total work (LCM of $63/5$ & 14) = 126 units

The efficiency of A, B and C together = $126 / (63/5) = 10$ units/day

The efficiency of A and C together = $126 / 14 = 9$ units/day

The efficiency of B = $10 - 9 = 1$ unit/day

Required day = $(126 \times 2/3) / 1 = 84$ days

S38. Ans.(c)

Sol. Information Given:

The length and breadth of a rectangle are in the ratio 4:3, respectively.

When the length of the rectangle is increased by 30% and the breadth remains the same.

The area of the rectangle increases by 360 sq m

Formulas Used:

Area of the rectangle = Length \times Breadth

Basic Explanation:

Let the length and breadth of the rectangle be $4a$ and $3a$ meters respectively

Area of the rectangle = $4a \times 3a = 12a^2$ sq. m

New length of the rectangle = $4a \times 130/100 = 5.2a$ m

New area of the rectangle = $5.2a \times 3a = 15.6a^2$ sq. m

ATQ,

$$15.6a^2 - 12a^2 = 360$$

$$3.6a^2 = 360$$

$$a = 10$$

Original length of the rectangle = $4a = 40$ meter

S39. Ans.(a)

Sol. Information Given:

The average cost price of two articles, X and Y is Rs 1600.

Article X is sold at a 15% profit, and article Y is sold at a 25% profit.

The total selling price of articles X and Y is Rs 3800.

Formulas Used:

Profit percentages = Profit / (Cost price) $\times 100$

Selling price = $((100 + \text{profit}) / 100) \times \text{cost price}$

Basic Explanation:

The total cost price of two articles, X and Y = Rs 3200

Let the cost price of X be a Rs

And the cost price of Y = $(3200 - a)$ Rs

ATQ,

$$1.15a + 1.25 \times (3200 - a) = 3800$$

$$1.15a + 4000 - 1.25a = 3800$$

$$200 = 0.1a$$

$$2000 = a$$

Required price = $(3200 - 2000) \times 150 / 100 = \text{Rs } 1800$

S40. Ans.(b)

Sol. Information Given:

R and S started a business by investing Rs 20000 and Rs $(20000 + y)$, respectively.

After six months, S withdrew 30% of his initial investment.

At the end of the year, the total profit was Rs 13200.

The profit share of S was Rs 6800

Formulas Used:

Profit sharing ratio = Investment \times Time

Basic Explanation:

The profit-sharing ratio of R and S

$$= 20000 \times 12 : (20000 + y) \times 6 + (20000 + y) \times 0.7 \times 6$$

$$= 40000 : 34000 + 1.7y$$

ATQ,
 $40000/(34000+1.7y) = 6400/6800$
 $40000/(34000+1.7y) = 32/34$
 $42500 - 34000 = 1.7y$
 $y = 5000$
 Required value = $3y = 15000$

S41. Ans.(a)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times 1/4 = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70+300)/2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Required ratio = $115+205 : 108+42$
 $= 320 : 150$
 $= 32:15$

S42. Ans.(b)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times 1/4 = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70+300)/2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Required percentage = $(152-100)/100 \times 100 = 52\%$

S43. Ans.(d)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times 1/4 = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70+300)/2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Required difference = $205 - 152 = 53$

S44. Ans.(c)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times \frac{1}{4} = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70 + 300) / 2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Total number of defective EV cars sold by D = $42 \times \frac{3}{7} = 18$

Total number of non-defective EV cars sold by D = $42 \times \frac{4}{7} = 24$

Total number of defective petrol cars sold D = $18 \times 4 = 72$

Total number of non-defective petrol cars sold = $170 - 72 = 98$

Required answer = $98 + 24 = 122$

Q45. Ans.(c)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times \frac{1}{4} = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70 + 300) / 2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Total number of petrol cars sold by E = $\frac{4}{3} \times 108 = 144$

Total number of diesel cars sold by E = $\frac{2}{5} \times 170 = 68$

Total number of cars sold by E = $2 \times 400 = 800$

Total number of EV cars sold by E = $800 - 144 - 68 = 588$

Required difference = $588 - 100 = 488$

S46. Ans.(a)

Sol. For company A

Total number of cars sold = 400

Total number of EV cars sold = $400 \times \frac{1}{4} = 100$

Total number of petrol and diesel cars sold together = $400 - 100 = 300$

Total number of petrol cars sold = $(70 + 300) / 2 = 185$

Total number of diesel cars sold = $300 - 185 = 115$

Similarly,

Companies	Total number of cars sold	EV cars sold	Petrol cars sold	Diesel cars sold
A	400	100	185	115
B	550	55	290	205
C	360	108	152	100
D	280	42	170	68

Required difference = $(100 + 185) - \frac{1}{2} \times (290 + 170)$
 $= 285 - 230 = 55$

S47. Ans.(e)

Sol. Information Given:

A woman invested Rs Y in Scheme P and Rs Y+500 in Scheme Q.

The rate of interest for Scheme P is 8% p.a., and for Scheme Q is 10% p.a.

The total interest she received after three years from Scheme P and after two years from Scheme Q is Rs 452.

Formulas Used:

Simple interest = $(\text{Principal} \times \text{time} \times \text{rate of interest}) / 100$

Basic Explanation:

ATQ,

$(Y \times 8 \times 3) / 100 + ((Y + 500) \times 10 \times 2) / 100 = 452$

$24Y + 20Y + 10000 = 45200$

$44Y = 35200$

$Y = 800$

S48. Ans.(d)

Sol. Information Given:

Vessel P contains 200 liters of a mixture of milk and water in which water is 35%.

y liters of the mixture are taken out, where the quantity of water in y liters is 21 liters.

This y liters are then poured into vessel Q, which already contains y liters of water.

Formulas Used:

Water in mixture = $\text{Total Mixture} \times \text{Percentage of Water} / 100$

Basic Explanation:

Quantity of milk in P = $200 \times 65 / 100 = 130$

Quantity of water in P = $200 \times 35 / 100 = 70$

The ratio of milk to water in P = 13:7

$y = 21 / 7 \times 20 = 60$

Quantity of milk in Q = $60 \times 13 / 20 = 39$ liters

Quantity of water in Q = $60 \times 7 / 20 + 60 = 81$ liters

Required difference = $81 - 39 = 42$ liters

S49. Ans.(a)

Sol. Information Given:

A boat takes a total of 35 hours to cover 300 km downstream and 200 km upstream.

The downstream speed of the boat is 10 km/hr more than its upstream speed.

Formulas Used:

Time = Distance/Speed

Downstream speed = Speed of boat in still water + Speed of current

Upstream speed = Speed of boat in still water - Speed of current

Basic Explanation:

Let the speed of the boat in still water be x km/hr and the speed of the current be y km/hr.

Given, $x+y-(x-y)=10$

$x+y-x+y=10$

$y=5$

ATQ,

$300/(x+5)+200/(x-5)=35$

$x=15$

Required time = $600/(15+5)= 30$ hours

S50. Ans.(a)

Sol. Total weight of all students (20 boys and 10 girls) = $50 \times 30 = 1500$ kg

Average weight of boys = $50 - 5 = 45$ kg

Total weight of boys = $45 \times 20 = 900$ kg

Total weight of all girls = $1500 - 900 = 600$ kg

Required average = $600/10 = 60$ kg

S51. Ans.(b)

Sol. Information Given:

Train A travels at a speed of 72 km/hr and crosses a 500-meter-long platform in 50 seconds.

After crossing the platform, it encounters train B moving in the opposite direction at a speed of 54 km/hr.

Both trains completely pass each other in 24 seconds

Formulas Used:

Time = Distance/Speed

Speed in m/s = Speed in km/hr $\times 5/18$

Relative Speed = Speed of train A + Speed of train B

Total Distance = Length of Train A + Length of Platform

Total Distance = Length of Train A + Length of Train B

Basic Explanation:

The speed of the train A = $72 \times 5/18 = 20$ m/sec

Let the length of the train A be l meters

$(l+500)/20=50$

$l=500$

Speed of the train B = $54 \times 5/18 = 15$ m/sec

Let the length of the train B be ' b ' meters

ATQ,

$(500+b)/(15+20)=24$

$b = 340$

S52. Ans.(b)

Sol. Let the five consecutive even number be $a, a+2, a+4, a+6$ & $a+8$ respectively.

And the four consecutive odd number be $b, b+2, b+4$ & $b+6$ respectively.

ATQ,

$$\frac{b + b + 2 + b + 4 + b + 6}{4} - \frac{a + a + 2 + a + 4 + a + 6 + a + 8}{5} = 8$$

$$\frac{4b + 12}{4} - \frac{5a + 20}{5} = 8$$

$$b + 3 - a - 4 = 8$$

$$b - a = 9 \dots (I)$$

And

$$a + b = 33 \dots (II)$$

From (I) & (II)

$$a = 12, b = 21$$

Five consecutive even number = 12, 14, 16, 18 & 20

Four consecutive odd number = 21, 23, 25 & 27

Required difference = 25 - 14 = 11

S53. Ans.(e)

Sol.

$$\text{Required value} = 15000 \times \frac{115}{100} \times \frac{90}{100} \times \frac{100 + X}{100} = 18630$$

$$100 + X = 120$$

$$X = 20$$

S54. Ans.(e)

Sol. Information Given:

The average weight of 15 students in a class is 60 kg.

The average weight of the first 8 students is 58 kg, and the average weight of the last 5 students is 63 kg.

The ratio of the weights of the 9th and 10th students is 7 : 4.

Formulas Used:

Total Sum of Values = Average × Number of Values

Basic Explanation:

$$\text{Total weight of 9th and 10th students} = 15 \times 60 - (58 \times 8 + 63 \times 5)$$

$$= 900 - 779$$

$$= 121$$

$$\text{Required weight} = 121 \times \frac{7}{11} = 77 \text{ kg}$$

S55. Ans.(e)

$$\text{Sol. I. } x^2 + 10x + 21 = 0$$

$$x^2 + 7x + 3x + 21 = 0$$

$$(x+7)(x+3) = 0$$

$$x = -7, -3$$

$$\text{II. } y^2 + 11y + 24 = 0$$

$$y^2 + 8y + 3y + 24 = 0$$

$$(y+8)(y+3) = 0$$

$$y = -8, -3$$

S56. Ans.(a)

Sol.

$$\text{I. } x^2 - 17x + 72 = 0$$

$$x^2 - 8x - 9x + 72 = 0$$

$$x(x - 8) - 9(x - 8) = 0$$

$$(x - 8)(x - 9) = 0$$

$$x = 8, 9$$

$$\text{II. } y^2 - 9y + 18 = 0$$

$$y^2 - 6y - 3y + 18 = 0$$

$$y(y - 6) - 3(y - 3) = 0$$

$$(y - 3)(y - 6) = 0$$

$$y = 3, 6$$

$$\text{So, } x > y$$

S57. Ans.(a)

Sol.

$$\text{I. } x^2 - 26x + 165 = 0$$

$$x^2 - 15x - 11x + 165 = 0$$

$$x(x - 15) - 11(x - 15) = 0$$

$$(x - 15)(x - 11) = 0$$

$$x = 15, 11$$

$$\text{II. } y^2 - 13y + 40 = 0$$

$$y^2 - 8y - 5y + 40 = 0$$

$$y(y - 8) - 5(y - 8) = 0$$

$$(y - 8)(y - 5) = 0$$

$$y = 8, 5$$

$$\text{So, } x > y$$

S58. Ans.(e)

Sol.

$$\text{I. } x^2 + 15x + 50 = 0$$

$$x^2 + 10x + 5x + 50 = 0$$

$$x(x + 10) + 5(x + 10) = 0$$

$$(x + 10)(x + 5) = 0$$

$$x = -5, -10$$

$$\text{II. } y^2 + 20y + 99 = 0$$

$$y^2 + 11y + 9y + 99 = 0$$

$$y(y + 11) + 9(y + 11) = 0$$

$$(y + 11)(y + 9) = 0$$

$$y = -11, -9$$

S59. Ans.(d)

Sol.

$$\text{I. } x^2 - 14x + 48 = 0$$

$$x^2 - 14x + 48 = 0$$

$$x^2 - 8x - 6x + 48 = 0$$

$$x(x - 8) - 6(x - 8) = 0$$

$$(x - 8)(x - 6) = 0$$

$$x = 8, 6$$

$$\text{II. } y^2 - 20y + 96 = 0$$

$$y^2 - 12y - 8y + 96 = 0$$

$$y(y - 12) - 8(y - 12) = 0$$

$$(y - 12)(y - 8) = 0$$

$$y = 12, 8$$

$$\text{So, } x \leq y$$

S60. Ans.(e)

Sol. Information Given:

The present age ratio of C to D is 4:5. Y years ago, the ratio of their ages was 3:4.

The sum of their ages after Y years will be 66.

Basic Explanation:

Let the present age ratio of C and D be 4a and 5a years respectively.

ATQ,

$$(4a - Y)/(5a - Y) = 3/4$$

$$16a - 4Y = 15a - 3Y$$

$$a = Y$$

$$\text{Given, } 4a + Y + 5a + Y = 66$$

$$9a + 2Y = 66$$

$$9a + 2a = 66$$

$$11a = 66$$

$$a = 6$$

$$\text{Required age} = 5a = 30 \text{ years}$$

S61. Ans.(a)

Sol.

$$15\% \text{ of } 740 - 65\% \text{ of } 800 = 552 - ?^2$$

$$111 - 520 = 552 - ?^2$$

$$?^2 = 961$$

$$? = 31$$

S62. Ans.(d)

Sol.

$$\frac{4}{7} \times \frac{1}{64} \times 49 = ?$$

$$\frac{7}{16} = ?$$

S63. Ans.(d)

Sol.

$$2 \times ? = \frac{5600}{7} - \frac{3}{8} \times 960$$

$$2 \times ? = 800 - 360$$

$$? = 220$$

S64. Ans.(d)

Sol. $240\% \text{ of } 20 + 117 \div \sqrt{81} + ? = 220$

$$48 + 13 + ? = 220$$

$$159 = ?$$

S65. Ans.(a)

Sol. $380 + 620 - 190\% \text{ of } 820 = ? - 120 \times \sqrt{25}$

$$380 + 620 - 1558 = ? - 600$$

$$42 = ?$$

S66. Ans.(a)

Sol. Final arrangement:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Clues: Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Inference: We have two possible cases:

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
6		Grey		White
5				
4	P	White		Grey
3	U			
2			P	
1			U	

Clues: Only one floor is between Q and the one who likes pink. The one who likes pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. Inference: Case 1a also introduced here.

Floors	Case 1		Case 2		Case 1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6		Grey		White		Grey
5	Q					
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2		Blue	P	Pink		Blue
1			U		Q	

Clues: The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red. Inference: Case 1a and case 2 get eliminated.

Floors	Case 1		Case-2		Case-1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6	R	Grey		White		Grey
5	Q	Red				Red
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2	S	Blue	P	Pink	S	Blue
1	T	Black	U		Q	Black

Inference: The final arrangement is:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

The one who lives on the topmost floor i.e. R likes grey colour.

S67. Ans.(c)

Sol. Final arrangement:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Clues: Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Inference: We have two possible cases:

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
6		Grey		White
5				
4	P	White		Grey
3	U			
2			P	
1			U	

Clues: Only one floor is between Q and the one who likes pink. The one who likes pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. Inference: Case 1a also introduced here.

Floors	Case 1		Case 2		Case 1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6		Grey		White		Grey
5	Q					
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2		Blue	P	Pink		Blue
1			U		Q	

Clues: The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red. Inference: Case 1a and case 2 get eliminated.

Floors	Case 1		Case-2		Case-1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6	R	Grey		White		Grey
5	Q	Red				Red
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2	S	Blue	P	Pink	S	Blue
1	T	Black	U		Q	Black

Inference: The final arrangement is:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

P-White is correct.

S68. Ans.(b)

Sol. Final arrangement:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Clues: Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Inference: We have two possible cases:

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
6		Grey		White
5				
4	P	White		Grey
3	U			
2			P	
1			U	

Clues: Only one floor is between Q and the one who likes pink. The one who likes pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. Inference: Case 1a also introduced here.

Floors	Case 1		Case 2		Case 1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6		Grey		White		Grey
5	Q					
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2		Blue	P	Pink		Blue
1			U		Q	

Clues: The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red. Inference: Case 1a and case 2 get eliminated.

Floors	Case 1		Case-2		Case-1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6	R	Grey		White		Grey
5	Q	Red				Red
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2	S	Blue	P	Pink	S	Blue
1	T	Black	U		Q	Black

Inference: The final arrangement is:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

$$Q(5) + \text{Pink}(3) = 8$$

S69. Ans.(d)

Sol. Final arrangement:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Clues: Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Inference: We have two possible cases:

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
6		Grey		White
5				
4	P	White		Grey
3	U			
2			P	
1			U	

Clues: Only one floor is between Q and the one who likes pink. The one who likes pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. Inference: Case 1a also introduced here.

Floors	Case 1		Case 2		Case 1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6		Grey		White		Grey
5	Q					
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2		Blue	P	Pink		Blue
1			U		Q	

Clues: The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red. Inference: Case 1a and case 2 get eliminated.

Floors	Case 1		Case-2		Case-1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6	R	Grey		White		Grey
5	Q	Red				Red
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2	S	Blue	P	Pink	S	Blue
1	T	Black	U		Q	Black

Inference: The final arrangement is:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Both II and III are true.

S70. Ans.(d)

Sol. Final arrangement:

Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

Clues: Only two floors are between the one who likes grey colour and U who lives on an odd numbered floor. P lives immediately above U. The number of floors below P is one more than the number of floors above the one who likes white. Inference: We have two possible cases:

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
6		Grey		White
5				
4	P	White		Grey
3	U			
2			P	
1			U	

Clues: Only one floor is between Q and the one who likes pink. The one who likes pink colour and the one who likes blue colour live on the adjacent floor. Neither U nor P likes blue colour. Inference: Case 1a also introduced here.

Floors	Case 1		Case 2		Case 1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6		Grey		White		Grey
5	Q					
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2		Blue	P	Pink		Blue
1			U		Q	

Clues: The number of floors between the one who likes black and S is two less than the number of floors between S and the one who like red. T likes neither grey nor red. Inference: Case 1a and case 2 get eliminated.

Floors	Case 1		Case-2		Case-1a	
	Persons	Colours	Persons	Colours	Persons	Colours
6	R	Grey		White		Grey
5	Q	Red				Red
4	P	White	Q	Grey	P	White
3	U	Pink		Blue	U	Pink
2	S	Blue	P	Pink	S	Blue
1	T	Black	U		Q	Black

Inference: The final arrangement is:

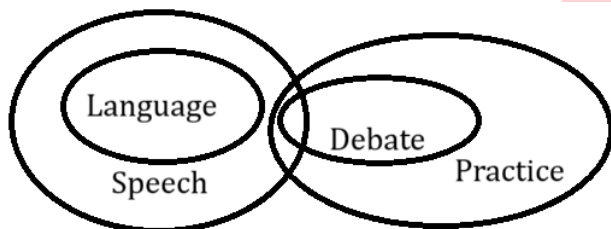
Floors	Persons	Colours
6	R	Grey
5	Q	Red
4	P	White
3	U	Pink
2	S	Blue
1	T	Black

The one who likes white lives on 4th floor.

S71. Ans.(a)

Sol. I follows: Language is only related with speech and with other elements it has no relation.

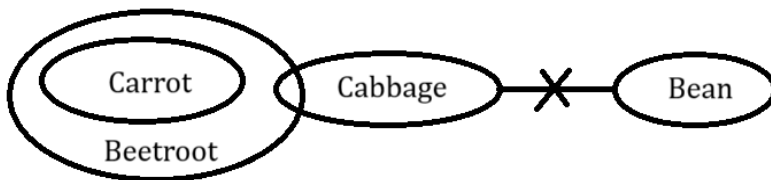
II doesn't follow: Language is only related with speech and with other elements it has no relation.



S72. Ans.(d)

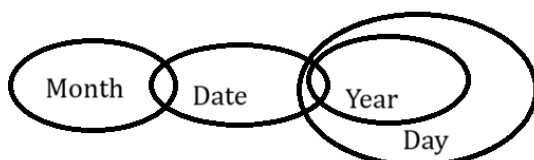
Sol. I doesn't follow: Part of beetroot which is cabbage can't be bean

II doesn't follow: No direct relation between the given elements so definite relation doesn't follow.



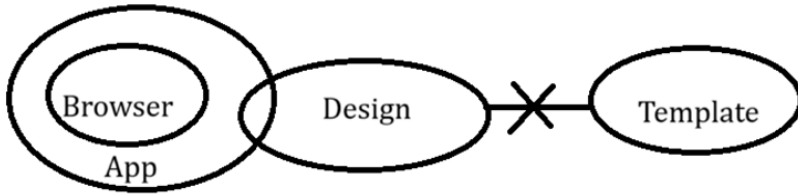
S73. Ans.(e)

Sol. I follows: No direct relation between the given elements so in possibility it will follow. II follows: Some year is definitely not date so it follows.



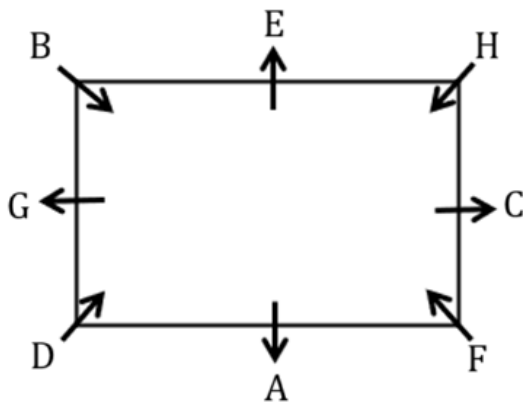
S74. Ans.(b)

Sol. I doesn't follow: No direct relation between the given elements so definite relation doesn't follow. II follows: Some design is definitely not app so it follows.

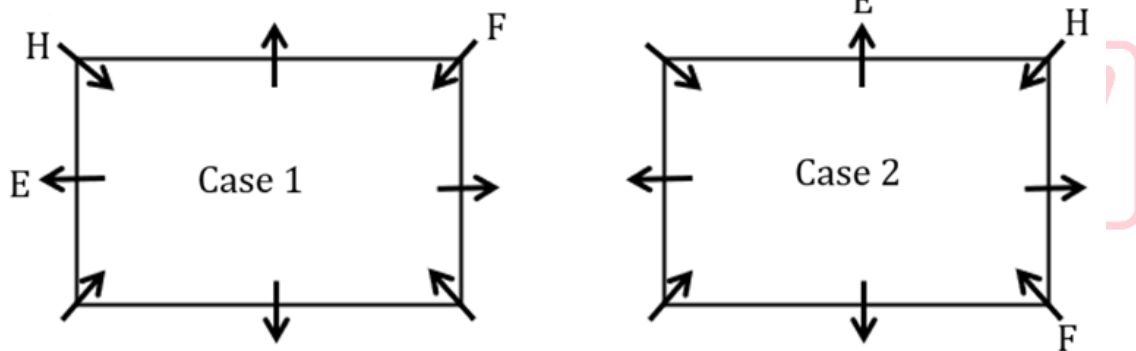


S75. Ans.(b)

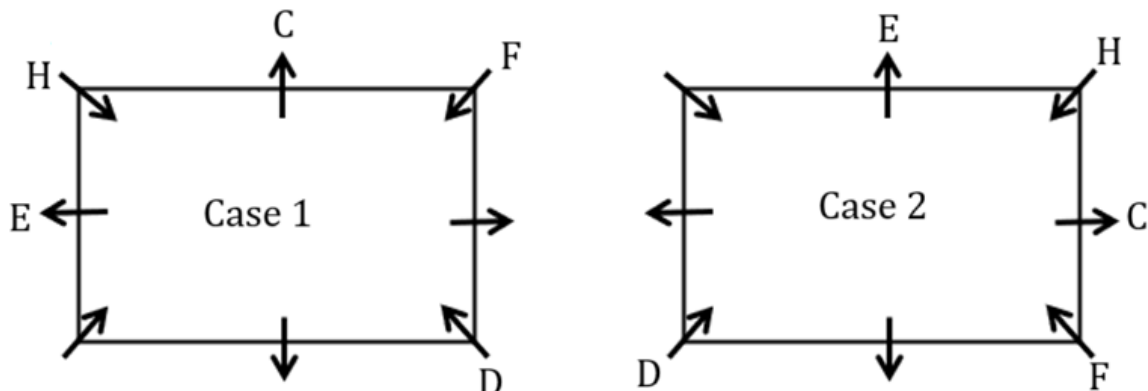
Sol. Final arrangement:



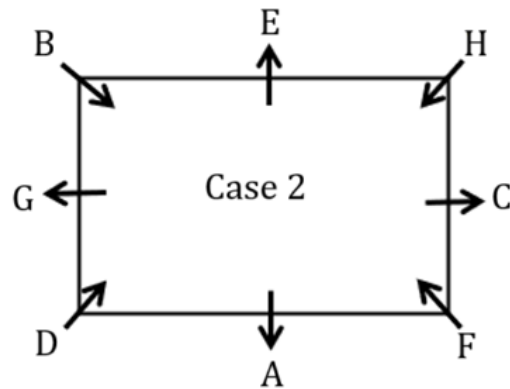
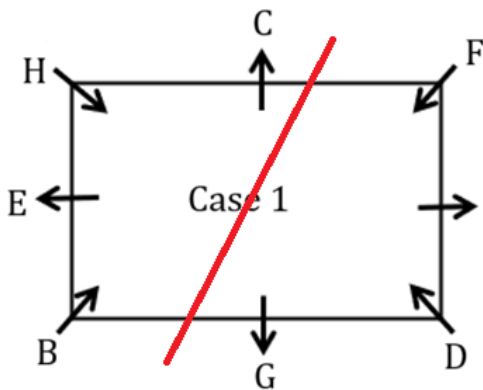
Clues: F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H. Inference: We have two possible cases



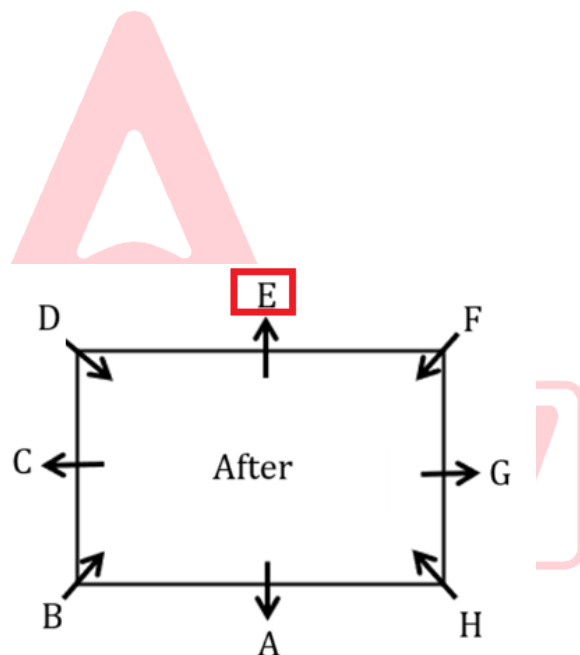
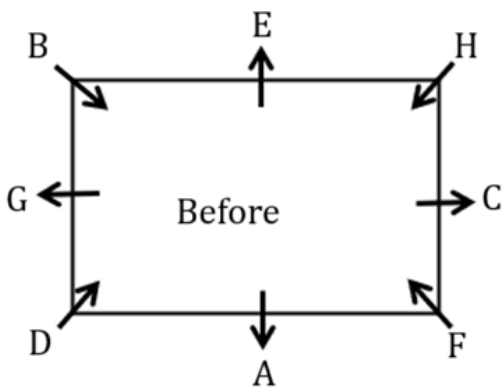
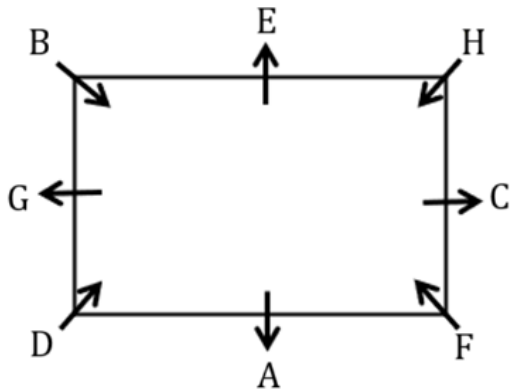
Clues: Only two persons sit between E and D. C sits third to the right of D. Inference:



Clues: Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.
Inference: Case 1 gets eliminated

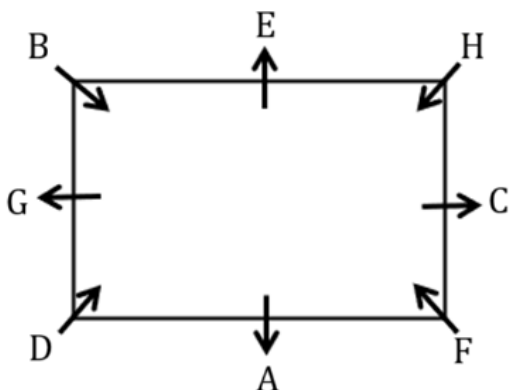


Inference: The final arrangement is:

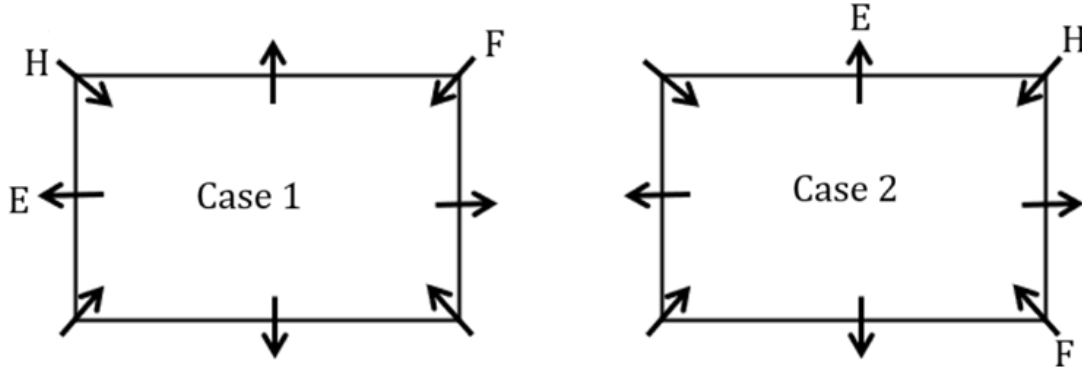


S76. Ans.(e)

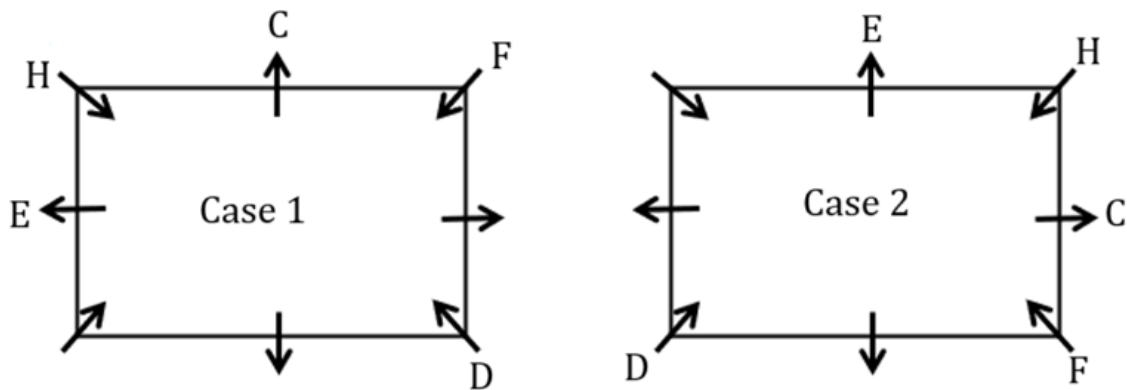
Sol. Final arrangement:



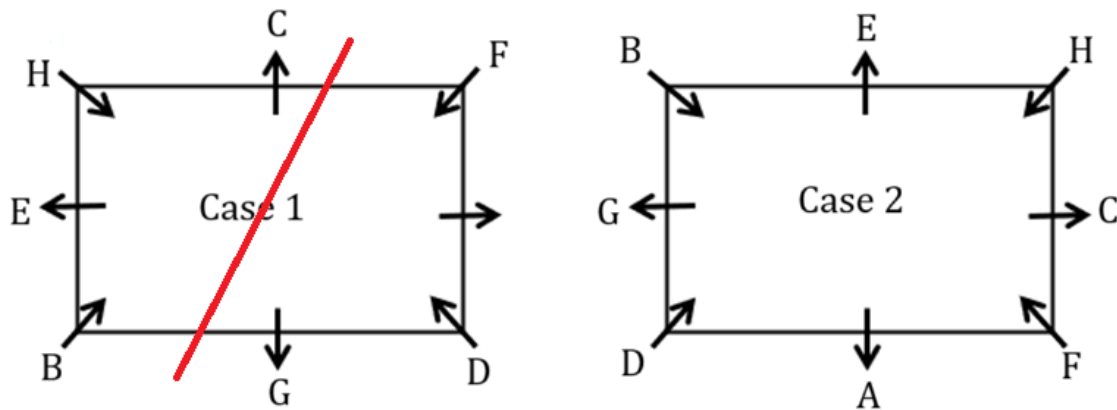
Clues: F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H.
Inference: We have two possible cases



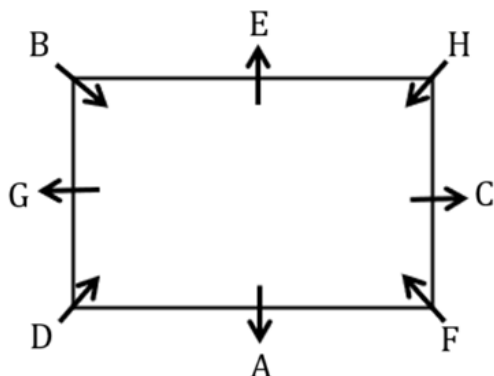
Clues: Only two persons sit between E and D. C sits third to the right of D. Inference:



Clues: Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.
Inference: Case 1 gets eliminated



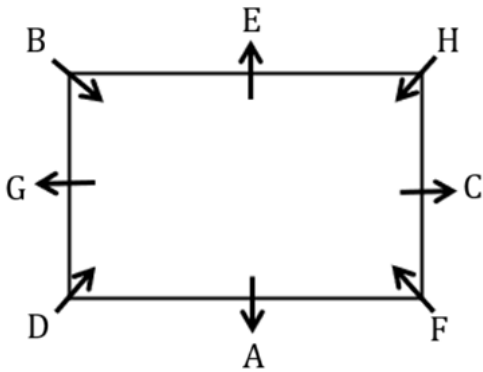
Inference: The final arrangement is:



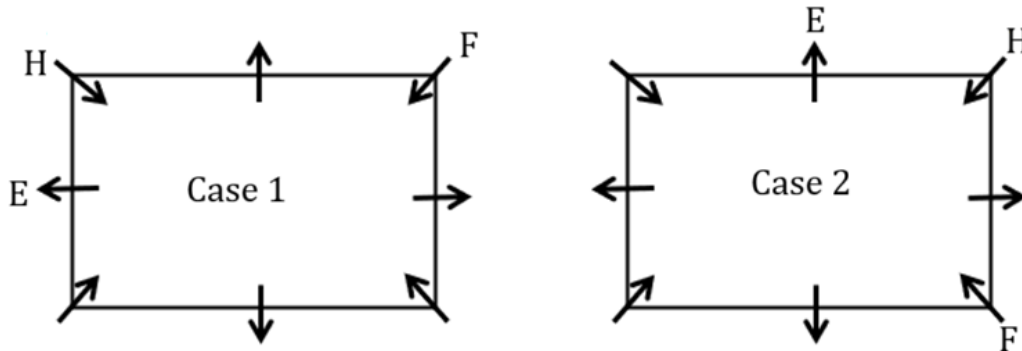
Except A, all sit at the corner of the table.

S77. Ans.(c)

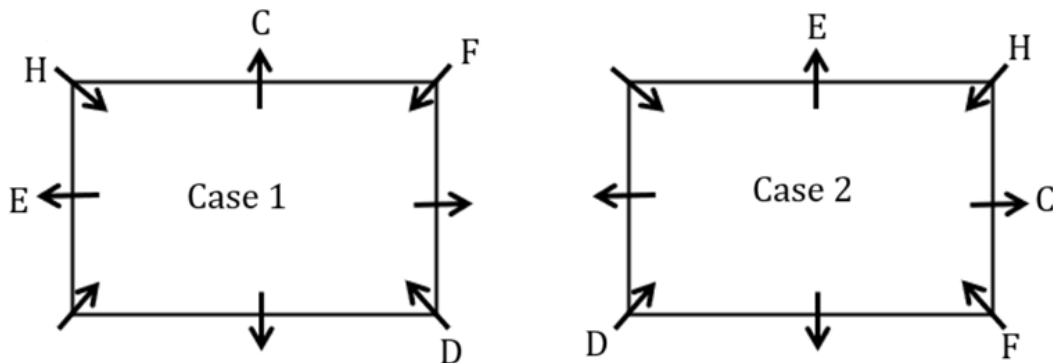
Sol. Final arrangement:



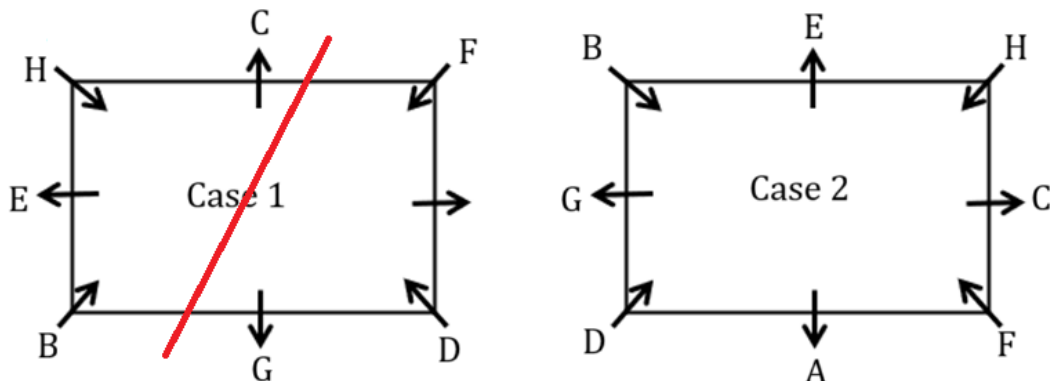
Clues: F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H.
Inference: We have two possible cases



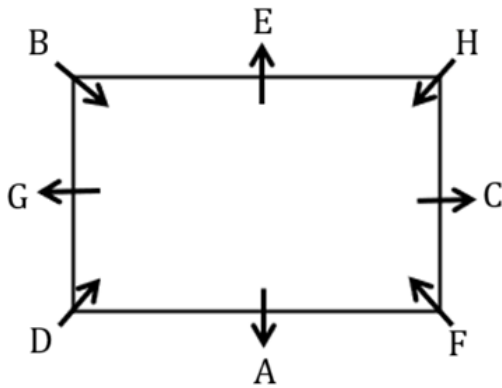
Clues: Only two persons sit between E and D. C sits third to the right of D. Inference:



Clues: Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.
Inference: Case 1 gets eliminated



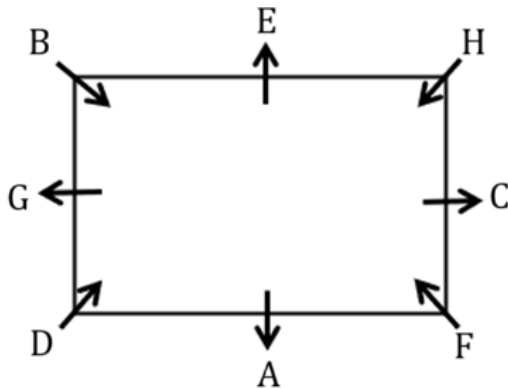
Inference: The final arrangement is:



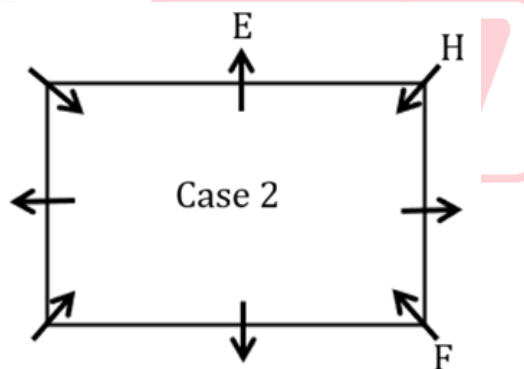
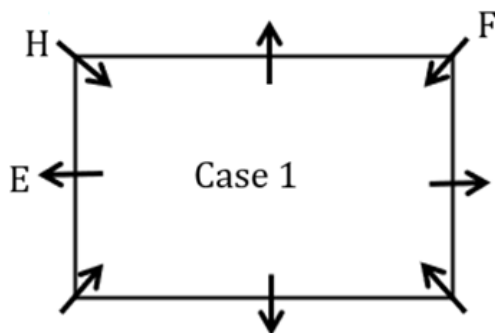
Both I and III are true.

S78. Ans.(d)

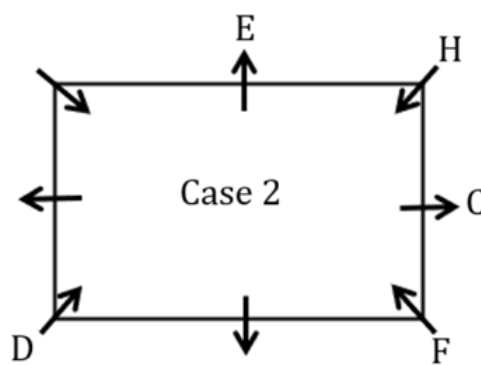
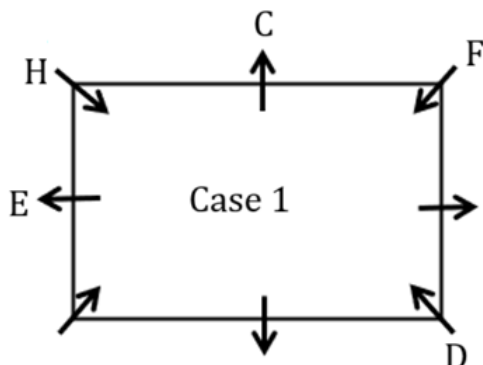
Sol. Final arrangement:



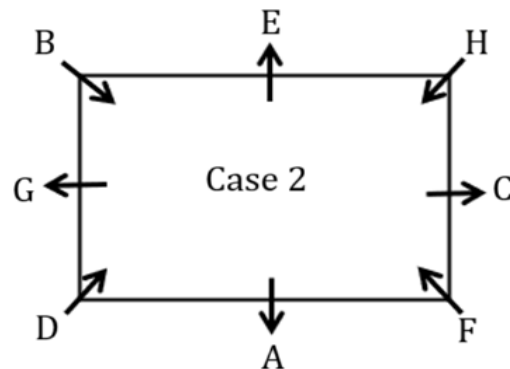
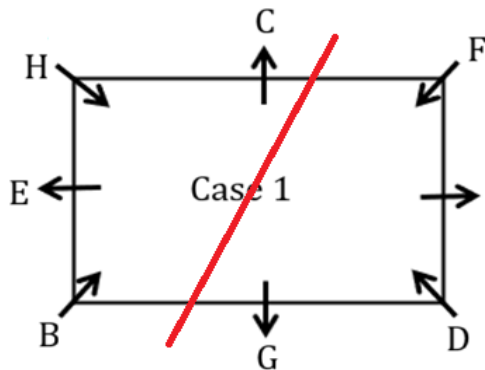
Clues: F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H.
Inference: We have two possible cases



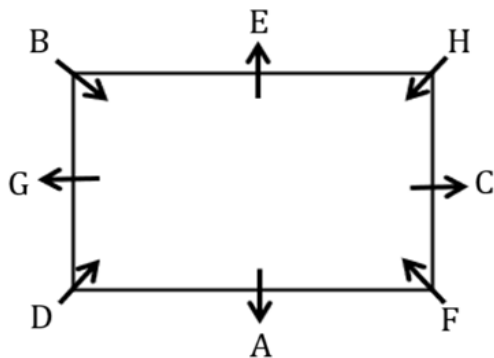
Clues: Only two persons sit between E and D. C sits third to the right of D. Inference:



Clues: Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.
Inference: Case 1 gets eliminated



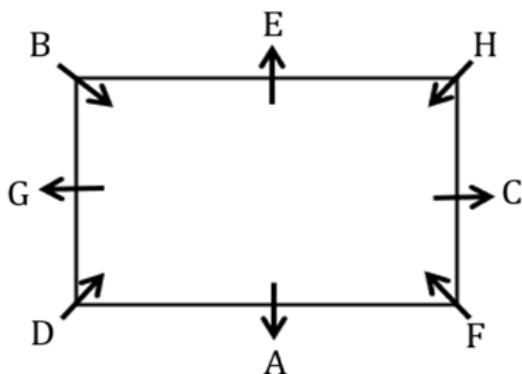
Inference: The final arrangement is:



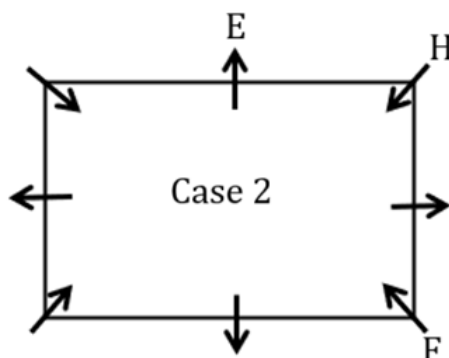
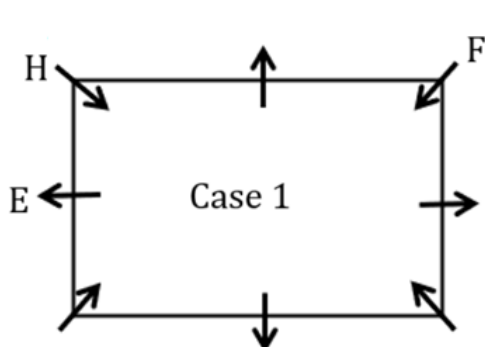
The one who sits immediate right of E i.e. H sits opposite to D.

S79. Ans.(b)

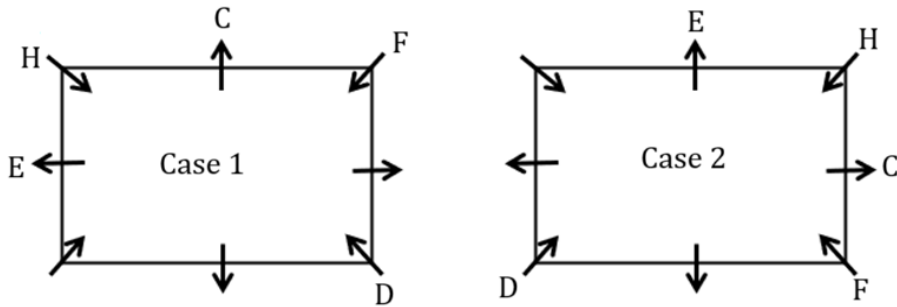
Sol. Final arrangement:



Clues: F sits at one of the corners of the table and sits second to the left of H. E sits to the immediate right of H.
Inference: We have two possible cases

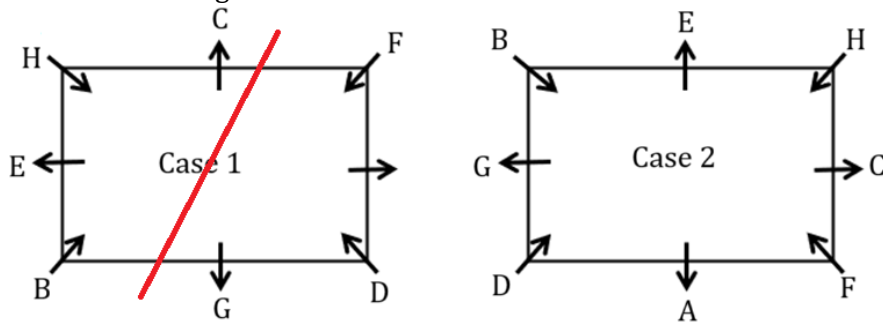


Clues: Only two persons sit between E and D. C sits third to the right of D. Inference:

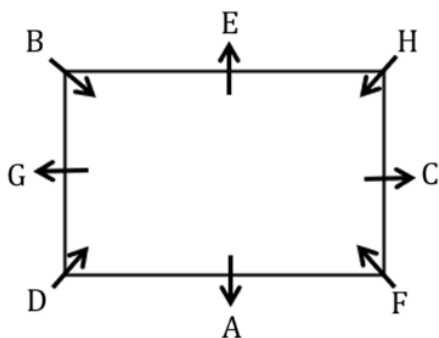


Clues: Only three persons sit between C and G. G sits adjacent to B. A doesn't sit at the shorter side of the table.

Inference: Case 1 gets eliminated



Inference: The final arrangement is:



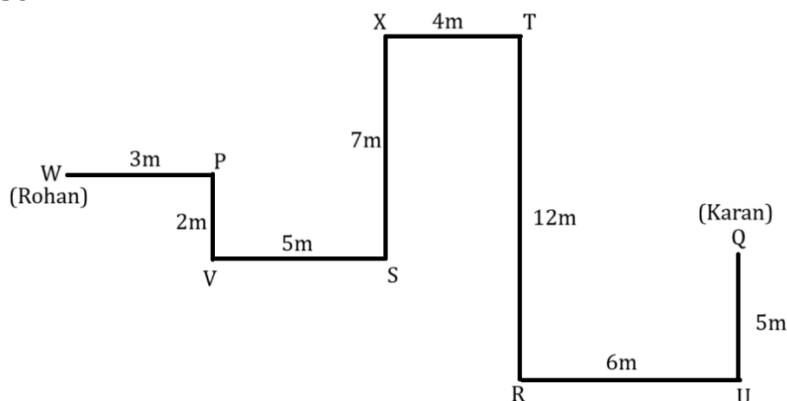
G sits second to the right of A.

S80. Ans.(d)

Sol. Logic- Second letter is the just preceding letter of the first letter and third letter is the second preceding letter of second letter.

S81. Ans.(d)

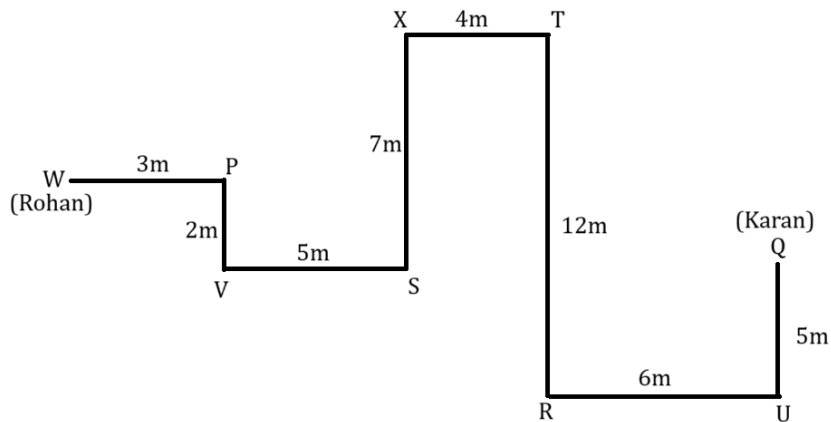
Sol.



South-east

S82. Ans.(c)

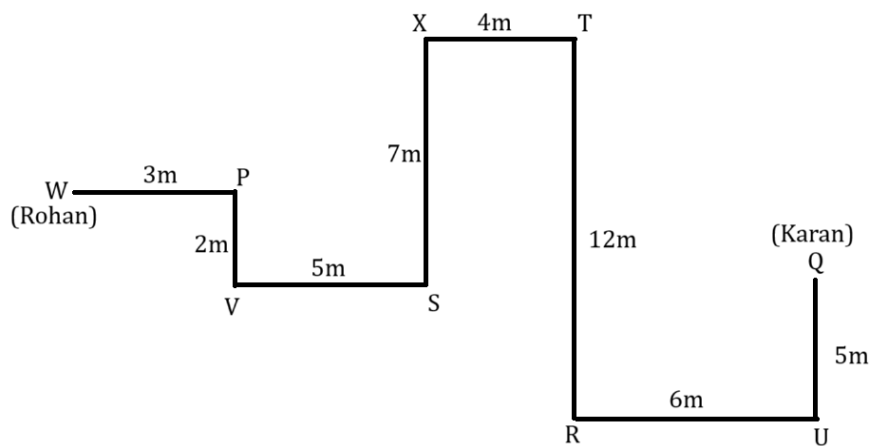
Sol.



First point is in north-west of second point except in option (c).

S83. Ans.(c)

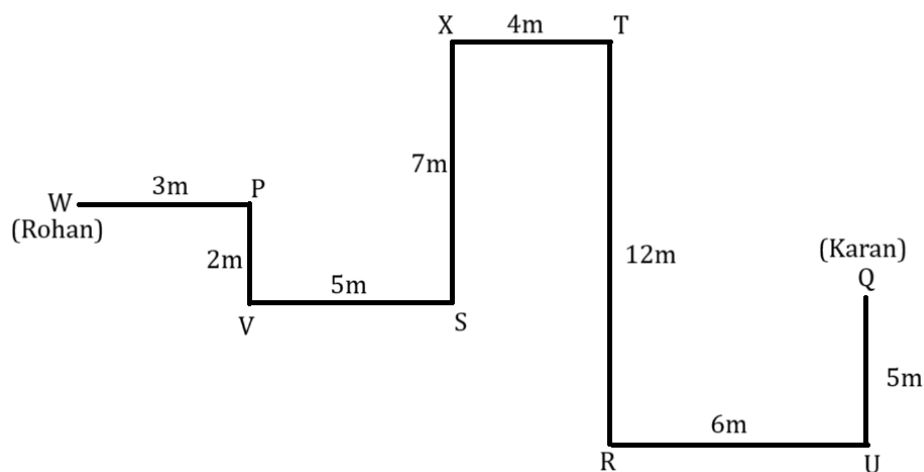
Sol.



Both I and III

S84. Ans.(a)

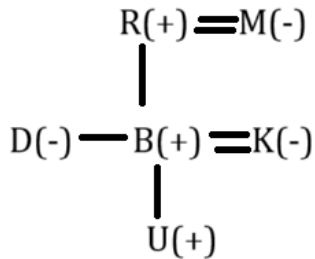
Sol.



$\sqrt{130}m$

S85. Ans.(c)

Sol. Final arrangement:



S86. Ans.(b)

Sol. Final arrangement:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Clues: X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Inference: We have three possible cases:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO		Q	
CFO	Q		
CRO			
COO			X
GM	S	X	
DM	X	S	
HR			S
TL			

Clues: Only three persons are designated between S and T. P is two persons junior to T. Inference:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO	T	Q	
CFO	Q	T	
CRO	P		T
COO		P	X
GM	S	X	P
DM	X	S	
HR			S
TL			

Clues: The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL. Inference: Case 1 and case 3 get eliminated.

Designations	Case-1 Persons	Case 2 Persons	Case-3 Persons
MD	U	W	Q
CEO	T	Q	
CFO	Q	T	
CRO	P	V	T
COO	V	P	X
GM	S	X	P
DM	X	S	
HR	W	R	S
TL	R	U	

Inference: The final arrangement is:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Four persons are designated between U and the one who is immediately junior to T.

S87. Ans.(a)

Sol. Final arrangement:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Clues: X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Inference: We have three possible cases:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO		Q	
CFO	Q		
CRO			
COO			X
GM	S	X	
DM	X	S	
HR			S
TL			

Clues: Only three persons are designated between S and T. P is two persons junior to T. Inference:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO	T	Q	
CFO	Q	T	
CRO	P		T
COO		P	X
GM	S	X	P
DM	X	S	
HR			S
TL			

Clues: The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL. Inference: Case 1 and case 3 get eliminated.

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD	U	W	Q
CEO	T	Q	
CFO	Q	T	
CRO	P	V	T
COO	V	P	X
GM	S	X	P
DM	X	S	
HR	W	R	S
TL	R	U	

Inference: The final arrangement is:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Designations	Before	After
MD	W	P
CEO	Q	Q
CFO	T	R
CRO	V	S
COO	P	T
GM	X	U
DM	S	V
HR	R	W
TL	U	X

S88. Ans.(c)

Sol. Final arrangement:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Clues: X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Inference: We have three possible cases:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO		Q	
CFO	Q		
CRO			
COO			X
GM	S	X	
DM	X	S	
HR			S
TL			

Clues: Only three persons are designated between S and T. P is two persons junior to T. Inference:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO	T	Q	
CFO	Q	T	
CRO	P		T
COO		P	X
GM	S	X	P
DM	X	S	
HR			S
TL			

Clues: The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL. Inference: Case 1 and case 3 get eliminated.

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD	U	W	Q
CEO	T	Q	
CFO	Q	T	
CRO	P	V	T
COO	V	P	X
GM	S	X	P
DM	X	S	
HR	W	R	S
TL	R	U	

Inference: The final arrangement is:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Statement in option (c) is false.

S89. Ans.(d)

Sol. Final arrangement:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Clues: X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Inference: We have three possible cases:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO		Q	
CFO	Q		
CRO			
COO			X
GM	S	X	
DM	X	S	
HR			S
TL			

Clues: Only three persons are designated between S and T. P is two persons junior to T. Inference:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO	T	Q	
CFO	Q	T	
CRO	P		T
COO		P	X
GM	S	X	P
DM	X	S	
HR			S
TL			

Clues: The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL. Inference: Case 1 and case 3 get eliminated.

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD	U	W	Q
CEO	T	Q	
CFO	Q	T	
CRO	P	V	T
COO	V	P	X
GM	S	X	P
DM	X	S	
HR	W	R	S
TL	R	U	

Inference: The final arrangement is:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

X is designated as GM.

S90. Ans.(e)

Sol. Final arrangement:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

Clues: X is four persons junior to Q who is senior to CRO. The number of persons senior to Q is one less than the number of persons junior to S. Inference: We have three possible cases:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO		Q	
CFO	Q		
CRO			
COO			X
GM	S	X	
DM	X	S	
HR			S
TL			

Clues: Only three persons are designated between S and T. P is two persons junior to T. Inference:

Designations	Case 1	Case 2	Case 3
	Persons	Persons	Persons
MD			Q
CEO	T	Q	
CFO	Q	T	
CRO	P		T
COO		P	X
GM	S	X	P
DM	X	S	
HR			S
TL			

Clues: The number of persons designated between P and U is one less than the number of persons designated between U and V who is senior to X. W is senior to R who is not TL. Inference: Case 1 and case 3 get eliminated.

Designations	Case-1	Case 2	Case-3
	Persons	Persons	Persons
MD	U	W	Q
CEO	T	Q	
CFO	Q	T	
CRO	P	V	T
COO	V	P	X
GM	S	X	P
DM	X	S	
HR	W	R	S
TL	R	U	

Inference: The final arrangement is:

Designations	Persons
MD	W
CEO	Q
CFO	T
CRO	V
COO	P
GM	X
DM	S
HR	R
TL	U

All are correct

S91. Ans.(a)

Sol. I. $H > U$ (True) II. $J < F$ (False)

S92. Ans.(e)

Sol. I. $Q \geq C$ (False) II. $A < Z$ (False)

S93. Ans.(d)

Sol. I. $W < L$ (True) II. $C \leq I$ (True)

S94. Ans.(b)

Sol. $L \leq G$ (False) II. $G < M$ (True)

S95. Ans.(c)

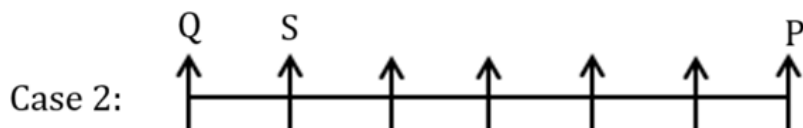
Sol. ATLL- TALL

S96. Ans.(b)

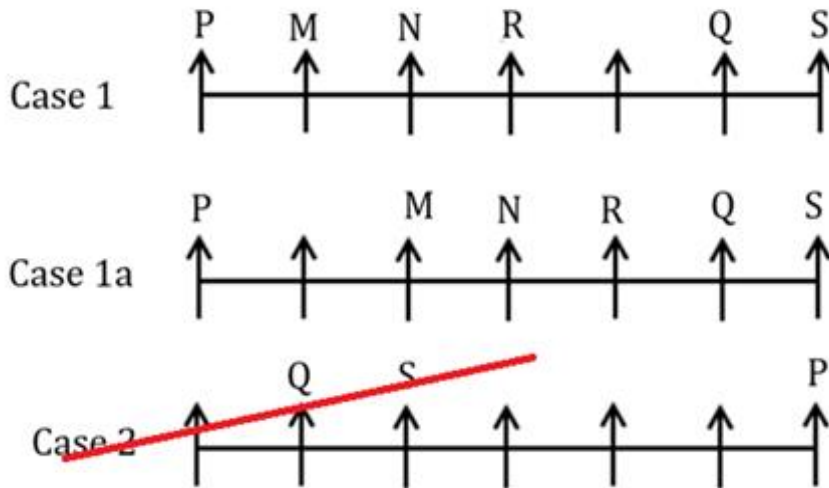
Sol. Final arrangement:



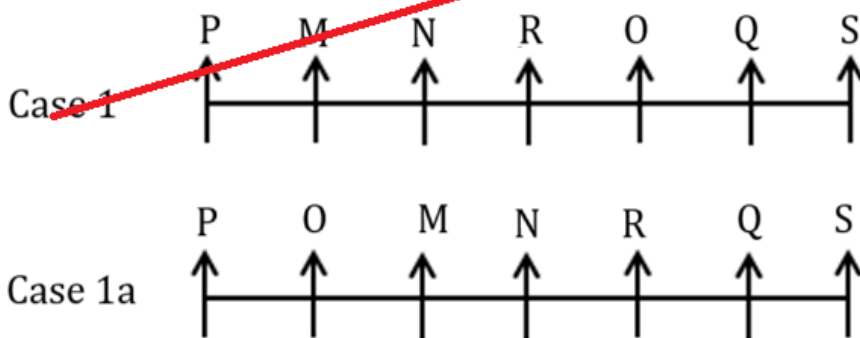
Clues: Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. Inference: We have two possible cases



Clues: The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. Inference: Case 2 gets eliminated and case 1a introduced.



Clue: O sits to the left of R. Inference: Case 1 gets eliminated.



Inference: The final arrangement is:



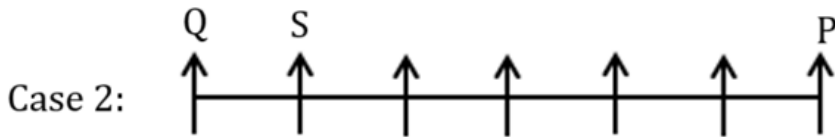
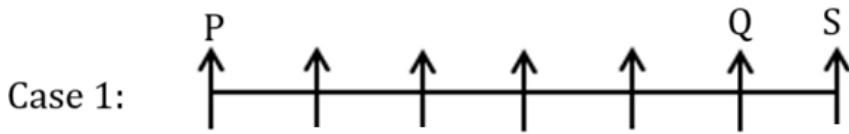
Three persons sit between M and S.

S97. Ans.(a)

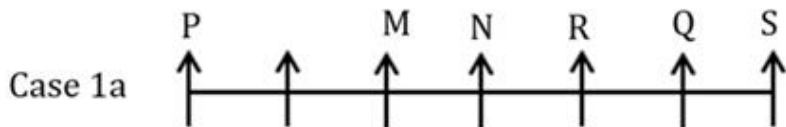
Sol. Final arrangement:



Clues: Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. Inference: We have two possible cases



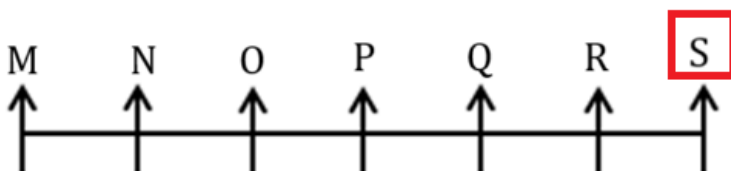
Clues: The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. Inference: Case 2 gets eliminated and case 1a introduced.



Clue: O sits to the left of R. Inference: Case 1 gets eliminated.



Inference: The final arrangement is:

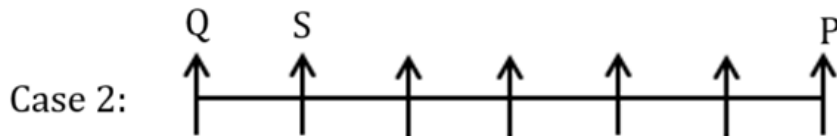
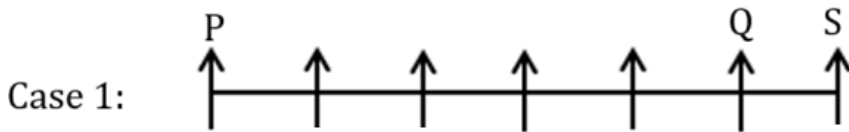


S98. Ans.(d)

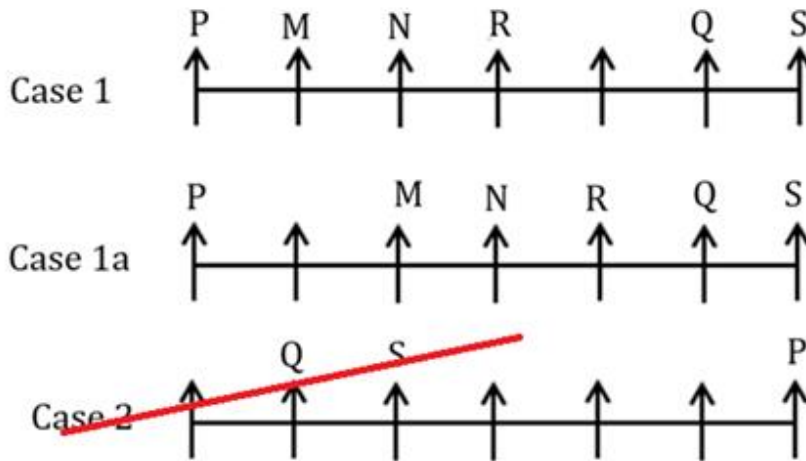
Sol. Final arrangement:



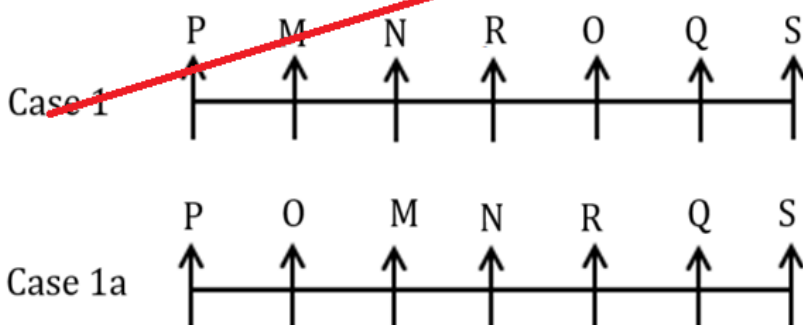
Clues: Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. Inference: We have two possible cases



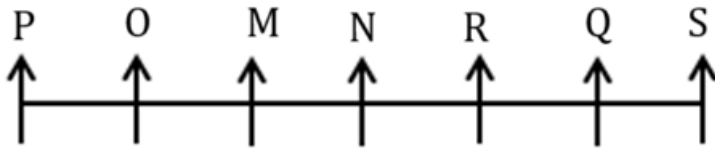
Clues: The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. Inference: Case 2 gets eliminated and case 1a introduced.



Clue: O sits to the left of R. Inference: Case 1 gets eliminated.



Inference: The final arrangement is:



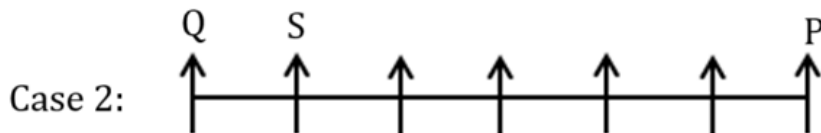
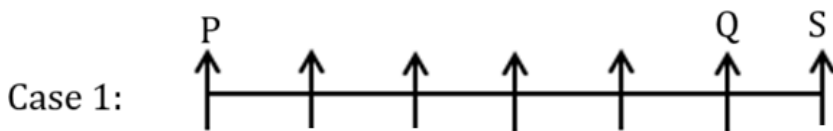
Except S, all sit at the middle in the row.

S99. Ans.(c)

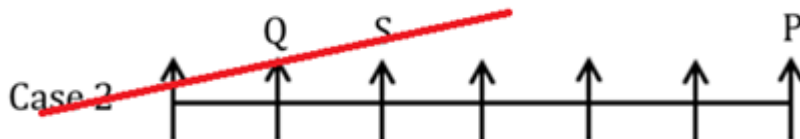
Sol. Final arrangement:



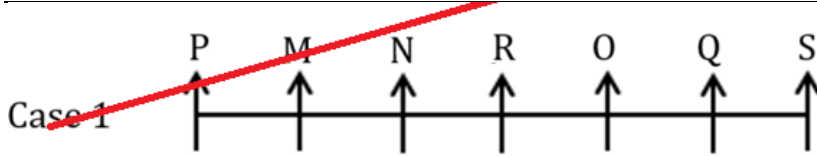
Clues: Only four persons sit between P and Q who does not sit at the extreme end of the row. S sits to the immediate right of Q. Inference: We have two possible cases



Clues: The number of persons sitting to the right of S is same as the number of persons sitting between M and N who sits to the immediate left of R. Inference: Case 2 gets eliminated and case 1a introduced.



Clue: O sits to the left of R. Inference: Case 1 gets eliminated.



Inference: The final arrangement is:



Both I and II

S100. Ans.(d)

Sol. Given number-357986258

After arrangement-458996359

-999 86 5543

Required product- $8 \times 5 = 40$



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