

RRB Section Controller Memory Based Paper 12 Oct 2026

Q1. A, B, C, D, S, T and U are sitting around a circular table, facing the centre of the table. Only three people sit between B and C, when counted from the left of B. Only three people sit between U and T, when counted from the right of T. D sits to the immediate right of U. A is an immediate neighbor of T as well as C. Who sits second to the left of S?

- (a) A
- (b) C
- (c) T
- (d) U

Ans.(a)

Q2. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

TKB ULG VML WNQ ?

- (a) YQW
- (b) XQW
- (c) YOX
- (d) XOV

Ans.(d)

Q3. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

D B _ A H _ G E _ J K I P N _ M T _ S Q

- (a) C E L O R
- (b) C F M O R
- (c) C F L O S
- (d) C F L O R

Ans.(d)

Q4. Refer to the following series and answer the question. (Counting to be done from left to right only.)
(All numbers are single-digit numbers only.)

(Left) 8 2 6 6 3 1 8 6 4 2 2 8 4 3 4 9 9 3 7 4 6 1 6 (Right)

How many such even digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

- (a) None
- (b) Two
- (c) Three
- (d) One

Ans.(c)



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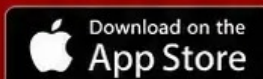


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Q5. F is the husband of G. G is the mother of H. H is the husband of I. I is the mother of J. How is F related to J?

- (a) Father's brother
- (b) Father's father
- (c) Mother's brother
- (d) Mother's father

Ans.(b)

Q6. Each letter in the word PREDIAL is changed to the letter immediately following it in the English alphabetical order and then all the letters thus obtained are arranged in the English alphabetical order. Which of the following letters will be fourth from the right in the new group of letters thus formed?

- (a) E
- (b) M
- (c) F
- (d) J

Ans.(d)

Q7. Eight people are sitting in two parallel rows containing 4 people each in such a way that there is equal distance between adjacent persons.

In row 1 – L, M, N and O are seated and all of them are facing south.

In row 2 – P, Q, R and S are seated and all of them are facing north.

Thus, each person faces another person from the other row. M sits third to the right of N. The one facing Q is an immediate neighbour of N. The one facing O is an immediate neighbour of Q. The one facing M is an immediate neighbour of R. S sits at some place to the left of P. Who among the following faces R?

- (a) M
- (b) L
- (c) N
- (d) O

Ans.(d)

Q8. This question is based on the following words.

(Left) SKY ITS NOT LTD (Right)

In each of the words, each vowel is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. In how many letter-clusters thus formed, will no vowel appear?

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

Ans.(d)

Q9. What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$$6 \div 5 + 10 \times 2 - 5 = ?$$

- (a) 35
- (b) 28
- (c) 34
- (d) 30

Ans.(d)

Q10. In a certain code language, 'watch bow third' is coded as 'ft gb vs' and 'canoe watch art' is coded as 'vs rp hr'. How is 'watch' coded in the given language?

- (a) gb
- (b) vs
- (c) rp
- (d) ft

Ans.(b)

Q11. Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?

(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

- (a) YAD
- (b) EHJ
- (c) MOR
- (d) SUX

Ans.(b)

Q12. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

KEV CWN UOF MGX ?

- (a) EYP
- (b) EDS
- (c) EPY
- (d) ERT

Ans.(a)

Q13. In a certain code language,

A % B means 'A is the sister of B'

A € B means 'A is the son of B'

A = B means 'A is the father of B'

A ? B means 'A is the daughter of B'

Based on the above, how is B related to X if 'B % C ? O € P = X'?

- (a) Mother's mother

- (b) Mother
- (c) Wife
- (d) Brother's daughter

Ans.(d)

Q14. In a certain code language, 'know city routes' is coded as 'ha mi ko' and 'city lights beautiful' is coded as 'ly ha jh'. How is 'city' coded in the given language?

- (a) jh
- (b) ko
- (c) ly
- (d) ha

Ans.(d)

Q15. What should come in place of ? in the given series based on the English alphabetical order?

ILA, KOF, MRK, OUP, ?

- (a) PYW
- (b) QXU
- (c) RYU
- (d) QYV

Ans.(b)

Q16. Six people, C, D, E, O, P and Q, are sitting in a row, facing north. Only four people sit between O and Q. C sits to the immediate left of Q. Only one person sits between C and E. P sits at some place to the left of D.

How many people sit between P and D?

- (a) Two
- (b) Three
- (c) None
- (d) One

Ans.(d)

Q17. What should come in place of ? in the given series based on the English alphabetical order?
YDB UHE QLH MPK ?

- (a) ITN
- (b) NTO
- (c) OPS
- (d) NTL

Ans.(a)

Q18. Seven boxes, G, H, I, J, L, M and N, are kept one over the other, but not necessarily in the same order.

Box I is kept at the third position from the top. Box N is kept at the third position from the bottom. Only three boxes are kept between N and J. Only three boxes are kept between I and H. Box M is kept at a position somewhere above L.

Which box is kept at the bottom?

- (a) L
- (b) H
- (c) I
- (d) J

Ans.(b)

Q19. Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. Exactly two boxes are kept between E and B. B is kept on one of the positions above E. C is kept at the bottommost position. Box G is kept immediately above E. Exactly two boxes are kept between D and G. Only one box is kept below F. Which box is immediately below B?

- (a) G
- (b) A
- (c) F
- (d) E

Ans.(b)

Q20. Each of the digits in the number 5421389 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

- (a) THREE
- (b) NONE
- (c) TWO
- (d) ONE

Ans.(c)

Q21. Each vowel in the word CONTAIN is changed to the letter immediately following it in the English alphabetical order and each consonant is changed to the letter immediately preceding it in the English alphabetical order. Which of the following letters will be third from the left in the new group of letters thus formed?

- (a) M
- (b) O
- (c) L
- (d) N

Ans.(a)

Q22. R, E, A, D, I, N and G are sitting around a circular table, facing the centre of the table. Only one person sits between G and E when counted from the left of E. D sits third to the right of N. R sits third to the left of I. D sits to the immediate right of R. A is not an immediate neighbor of R.

How many people sit between A and E when counted from the right of A?

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

Ans.(c)

Q23. A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. B lives on an odd numbered floor but not on floor number 5. Only three people live between C and A. A lives immediately below B. F lives immediately above E. How many people live between D and F?

- (a) One
- (b) Two
- (c) Three
- (d) None

Ans.(c)

Q24. 2 is related to 10 following a certain logic. Following the same logic, 4 is related to 18.

To which of the following is 45 related, following the same logic?

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

- (a) 182
- (b) 178
- (c) 180
- (d) 184

Ans.(a)

Q25. At what time (in PM), the angle between hour and minute hands of a clock will be 100 degrees?

- (a) 6:15
- (b) 1:55
- (c) 7:20
- (d) 3:00

Ans.(c)

Directions (26-30): Read the following passage carefully and answer the questions that follow.

Climate change is often presented as a problem that can be resolved through technological ingenuity. More efficient batteries, carbon-capture systems and renewable energy networks are frequently cited as evidence that societies can preserve their existing patterns of consumption while reducing environmental damage. Yet this confidence can obscure a fundamental difficulty: technological progress does not automatically translate into ecological restraint.

Consider the growing efficiency of household appliances. Although modern devices consume less electricity per unit of service, households may purchase more devices or use them more frequently because operating costs have fallen. Economists describe this phenomenon as the rebound effect. In certain circumstances, the additional consumption partially offsets the environmental savings initially achieved through efficiency.

This does not make technological innovation futile. Rather, it suggests that its consequences depend on the social and economic arrangements within which it operates. Cleaner energy becomes more transformative when accompanied by incentives that discourage waste, infrastructure that supports public transport, and institutions that make environmental costs visible to consumers and producers. The deeper challenge, therefore, is not simply to invent less damaging ways of satisfying demand, but also to examine how demand itself is generated. Advertising, urban design and expectations of convenience can encourage resource-intensive lifestyles that individuals may scarcely recognise as choices. Climate policy must consequently combine technical solutions with measures that reshape collective habits and economic incentives.

A society that treats innovation as a substitute for behavioural and institutional change may achieve measurable improvements without reducing its overall ecological burden sufficiently. The objective should not be to reject technological optimism, but to temper it with an understanding of the systems that determine how technology is used.

Q26. Which of the following best captures the central argument of the passage?

- (a) Technological innovations are largely ineffective because consumers inevitably increase their consumption.
- (b) Climate change can be addressed adequately by replacing conventional energy sources with renewable alternatives.
- (c) Technological innovation must be complemented by changes in consumption patterns, institutions and economic incentives to achieve substantial environmental benefits.
- (d) Advertising is the principal cause of climate change and should therefore be strictly prohibited.

Ans.(c)

Q27. According to the passage, what does the rebound effect demonstrate?

- (a) Improvements in energy efficiency can sometimes be partly offset when lower operating costs encourage greater consumption.
- (b) Households always consume more energy after purchasing efficient appliances.
- (c) Renewable energy systems inevitably create greater environmental damage than conventional systems.
- (d) Consumers generally reject environmentally friendly technologies when their prices decrease.

Ans.(a)

Q28. A city introduces energy-efficient air conditioners, expecting a substantial reduction in electricity demand. However, residents begin cooling more rooms for longer periods because electricity costs have decreased. Which policy would best reflect the author's argument?

- (a) Abandon energy-efficient appliances and return to older models.
- (b) Continue improving appliance efficiency while introducing measures that discourage wasteful consumption and improve building design.
- (c) Focus exclusively on persuading residents to buy additional energy-efficient appliances.
- (d) Assume that lower electricity consumption per appliance guarantees a reduction in the city's total energy demand.

Ans.(b)

Q29. How does the author develop the argument in the passage?

- (a) By presenting a historical account of climate negotiations and then comparing international agreements.
- (b) By describing a technological solution, illustrating a limitation through an example, and advocating a broader policy approach.
- (c) By rejecting scientific evidence and replacing it with personal observations about consumer lifestyles.
- (d) By comparing two opposing theories and proving that both are entirely incorrect.

Ans.(b)

Q30. Which description best characterises the author's style?

- (a) Satirical and dismissive, ridiculing people who support technological progress.
- (b) Alarmist and emotionally charged, intended primarily to provoke fear about environmental collapse.
- (c) Analytical and qualified, acknowledging the benefits of technology while examining the conditions that limit its effectiveness.
- (d) Narrative and autobiographical, relying on the author's personal experiences.

Ans.(c)

Directions (31-35): Read the following passage carefully and answer the questions that follow.

Artificial intelligence is increasingly used to assist decisions once entrusted almost entirely to human judgment. Recruitment platforms rank applicants, predictive systems estimate financial risk, and diagnostic tools identify patterns in medical data. Such systems can process information at a scale that would overwhelm individual decision-makers. Nevertheless, their apparent precision should not be confused with impartiality.

An algorithm learns from data produced within existing social arrangements. If historical recruitment records systematically favour certain groups, a model trained on those records may reproduce the same preferences, even when demographic identifiers are removed. Inequality can persist through indirect indicators such as educational history, location or employment gaps. Thus, technical sophistication does not necessarily eliminate inherited prejudice; it may render that prejudice less visible.

The problem extends beyond biased outcomes. When institutions rely heavily on automated recommendations, employees may become reluctant to challenge them, particularly when the system's internal reasoning is difficult to interpret. Responsibility then becomes diffuse: developers blame the data, managers trust the software, and affected individuals struggle to identify who should answer for an unjust decision.

This does not imply that artificial intelligence should be excluded from consequential decisions. Rather, its deployment should be accompanied by transparent procedures, independent audits and meaningful opportunities for human review. Human oversight, however, must be substantive rather than ceremonial; a person who merely approves a machine's recommendation without examining it provides little protection.

Ultimately, the central question is not whether machines can make decisions faster than humans. It is whether institutions can use that speed without surrendering accountability. Artificial intelligence is most defensible when it strengthens human reasoning while leaving responsibility identifiable, contestable and open to correction.

Q31. Which of the following best expresses the central argument of the passage?

- (a) Artificial intelligence should be prohibited from all decisions involving employment, finance and healthcare.
- (b) Automated systems are inherently more prejudiced than human decision-makers because they rely on historical data.
- (c) Artificial intelligence can improve decision-making, but its use must be accompanied by accountability, transparency and meaningful human oversight.
- (d) The accuracy of an algorithm depends exclusively on the quantity of data used to train it.

Ans.(c)

Q32. Why might removing demographic identifiers from a dataset fail to eliminate discrimination, according to the passage?

- (a) Algorithms cannot process data when demographic information is unavailable.
- (b) Other variables, such as educational history and location, may indirectly reflect existing social inequalities.
- (c) Removing demographic identifiers automatically makes every prediction statistically inaccurate.
- (d) Human decision-makers always ignore demographic information when evaluating applicants.

Ans.(b)

Q33. A company uses an AI system to shortlist candidates. The system consistently rejects applicants from certain neighbourhoods, although their qualifications meet the stated requirements. The HR manager accepts the recommendations without investigation because the software is considered reliable.

Which action best reflects the author's recommendations?

- (a) Continue using the system unchanged because automated decisions are more objective than human decisions.
- (b) Remove every location-related variable and assume that the discrimination problem has been permanently resolved.
- (c) Replace the system immediately with an entirely manual process without examining the source of the problem.
- (d) Audit the system for indirect bias, investigate its decision patterns and establish meaningful human review and a process for challenging outcomes.

Ans.(d)

Q34. Which sequence best describes the organisation of the passage?

- (a) Introduction of AI applications → explanation of inherited bias → discussion of weakened accountability → proposal for safeguards → concluding principle.
- (b) Historical development of computing → comparison of programming languages → rejection of automated systems → prediction of technological unemployment.
- (c) Presentation of an AI success story → description of its financial benefits → criticism of human intelligence → recommendation to automate all institutions.
- (d) Definition of artificial intelligence → list of technical algorithms → statistical comparison of accuracy rates → conclusion that data quantity determines fairness.

Ans.(a)

Q35. Which description best characterises the author's approach to artificial intelligence?

- (a) Technophobic and absolute, treating all automated decision-making as unacceptable.
- (b) Promotional and uncritical, emphasising AI's advantages while ignoring its social consequences.
- (c) Analytical and cautionary, recognising AI's usefulness while examining bias, accountability and safeguards.
- (d) Humorous and sarcastic, using ridicule to expose the weaknesses of software developers.

Ans.(c)

Directions (36-40): Read the following passage carefully and answer the questions that follow.

Human behaviour is frequently explained as the outcome of individual preferences: people choose what they value and act accordingly. Yet many everyday decisions reveal a more complicated reality. Individuals often look to others not because they lack preferences, but because other people's behaviour provides a convenient substitute for information they do not possess.

Consider a commuter deciding whether to join a queue outside a crowded restaurant. The queue may indicate excellent food, but it could equally reflect a temporary promotion or a slow service process. Nevertheless, the commuter may interpret the crowd as evidence of quality and join without investigating further. When enough people make similar inferences, an initially accidental choice can acquire the appearance of a reliable collective judgment.

Such behaviour is not necessarily irrational. In unfamiliar situations, learning from others can save time and reduce uncertainty. The difficulty arises when visible popularity is mistaken for independent confirmation. Ten people following one person's uninformed decision do not provide ten separate pieces of evidence. Their apparent agreement may simply reproduce the same original assumption.

This distinction matters in digital environments, where likes, ratings and trending lists can shape perceptions before individuals evaluate an idea for themselves. Repetition creates familiarity, and familiarity may be misinterpreted as credibility. As a result, a claim can acquire social authority without acquiring stronger evidential support.

The remedy is not to disregard collective opinion altogether. Instead, individuals should distinguish between popularity and independently verified evidence, while institutions should make the origins of recommendations more transparent. Sound judgment requires neither complete independence from others nor automatic conformity, but a willingness to ask whether apparent agreement reflects multiple informed assessments or merely one assumption repeated many times.

Q36. Which of the following best captures the central argument of the passage?

- (a) Collective decisions are generally superior to individual decisions because they reflect the preferences of many people.
- (b) Social influence is always irrational and should be avoided in both physical and digital environments.
- (c) Individuals should rely exclusively on expert opinion because ordinary people cannot evaluate information independently.
- (d) People often use others' behaviour as a shortcut for information, but apparent collective agreement can be misleading when it lacks independent evidence.

Ans.(d)

Q37. Why does the author argue that ten people following one uninformed decision do not necessarily provide ten separate pieces of evidence?

- (a) Because people who make similar decisions are always motivated by identical personal interests.
- (b) Because their apparent agreement may result from copying a single assumption rather than independently evaluating the available information.
- (c) Because collective behaviour cannot provide useful information under any circumstances.
- (d) Because numerical evidence is inherently less reliable than personal experience.

Ans.(b)

Q38. A social media post makes an extraordinary claim. One user shares it without verification, after which thousands of people repost it, citing the number of shares as proof that it must be true. Which response best applies the author's reasoning?

- (a) Accept the claim because widespread sharing demonstrates that many people have independently verified it.
- (b) Reject the claim immediately because every popular statement is necessarily false.
- (c) Investigate the original source and seek independent verification instead of treating repeated sharing as proof of accuracy.
- (d) Assume the claim is credible if the people sharing it belong to the same online community.

Ans.(c)

Q39. Which of the following best describes the logical progression of the passage?

- (a) A common assumption about individual choice is questioned, an everyday example illustrates social imitation, the limitations of collective agreement are explained, and a balanced remedy is proposed.
- (b) A psychological theory is introduced, rejected through experimental statistics, and replaced by a completely unrelated economic theory.
- (c) Several historical incidents are narrated chronologically to demonstrate that human behaviour has remained unchanged.
- (d) Online popularity is presented as a reliable measure of truth, followed by recommendations to increase public participation.

Ans.(a)

Q40. Which description best characterises the author's style?

- (a) Dogmatic and prescriptive, insisting that individuals must never consider other people's opinions.
- (b) Analytical and illustrative, using familiar situations to explain a psychological mechanism and deriving a balanced recommendation from it.
- (c) Satirical and confrontational, ridiculing individuals who follow popular opinions.
- (d) Purely descriptive, listing common human behaviours without evaluating their implications.

Ans.(b)

Q41. A and B jointly start a business. The investment of A is equal to three times the investment of B. Find the share of A in the annual profit of ₹5,524.

- (a) ₹4,123
- (b) ₹4,113
- (c) ₹4,133
- (d) ₹4,143

Ans.(d)

Q42. The sum of n terms of A.P. is $n^2 + 3n$, then common difference of A.P is

- (a) 2
- (b) 3
- (c) 1.5
- (d) 0.5

Ans.(a)

Q43. A wholesaler marked school uniforms at ₹1,200 each. He offered a 25% trade discount to a retailer. The retailer also received a scheme discount of 1 uniform free for every 5 purchased. Additionally, if the payment was made within 10 days, a cash discount of 8% on the billed amount (after trade discount) was offered. If the retailer received 72 uniforms in total and made the payment within 10 days, find the effective price per uniform in rupees.

- (a) ₹672
- (b) ₹668
- (c) ₹690
- (d) ₹700

Ans.(c)

Q44. Anita saves $y\%$ of her income. If her income increases by 30% and her expenditure increases by 20%, her savings increase by 40%. What is the value of y ?

- (a) 50
- (b) 43
- (c) 42
- (d) 48

Ans.(a)

Q45. The marked price of a cooker is same at four shops I, II, III and IV.

Shop I allows two successive discounts of 87% and 14%,

Shop II allows successive discounts of 16% and 92%,

Shop III allows successive discounts of 60% and 35% and

Shop IV allows successive discounts of 58%, 29%, and 87% on the marked price of the cooker.

Which shop is selling the cooker at the lowest price?

- (a) II
- (b) III
- (c) I
- (d) IV

Ans.(d)

Q46. The hypotenuse of a right-angled triangle is 46 cm and the difference of other two sides is 26 cm. Then, the area of the triangle is:

- (a) 598 cm²
- (b) 720 cm²
- (c) 299 cm²
- (d) 360 cm²

Ans.(d)

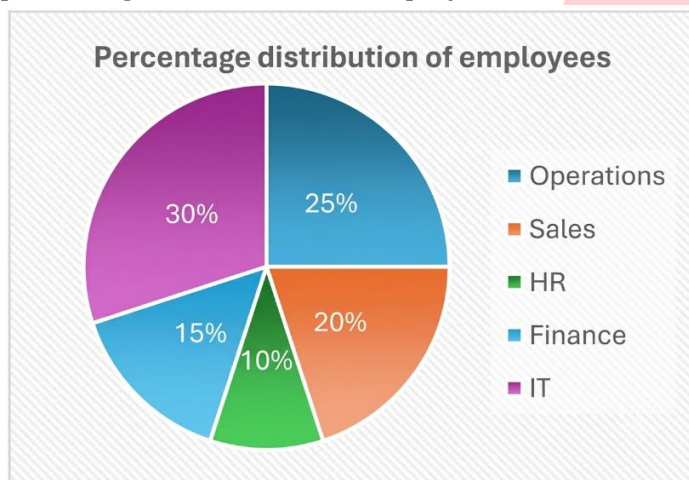
Q47. The following data pertaining to the number of insects per plant. Find median number of insects per plant.

Number of insects per plant (x)	1	2	3	4	5	6	7	8	9	10	11	12
No. of plants (f)	1	3	5	6	10	13	9	5	3	2	2	1

- (a) 9
- (b) 5
- (c) 6
- (d) 8

Ans.(c)

Q48. A company has 1200 employees divided into various departments. The pie chart below shows the percentage distribution of employees across different departments.



If 15% of the employees in the Sales Department are transferred to the IT Department, how many employees will be left in Sales, and what will be the new percentage of IT employees in the company, respectively?

- (a) 204, and 32%
- (b) 216, and 32%
- (c) 204, and 33%
- (d) 216, and 33%

Ans.(c)

Q49. A solid cube is melted and half of its material is recast into a cuboid whose length, breadth, and height are in the ratio 2 : 1 : 1. The difference between the volume of the original cube and the cuboid formed is 250 cubic cm. Find the total surface area of the cuboid.

- (a) 100 cm^2
- (b) 120 cm^2
- (c) 80 cm^2
- (d) 250 cm^2

Ans.(d)

Q50. Car M takes 7 hours to travel from point A to point B. It would have taken 8 hours if it had travelled the same distance at a speed 23.8 km/hr less than its original speed. What is the distance between points A and B?

- (a) 1332.8 km
- (b) 1333.9 km
- (c) 1330.2 km
- (d) 1331.5 km

Ans.(a)

Q51. The following table gives the total number of employees and the percentage of males and females working in 5 different companies A, B, C, D and E. Study the graph and answer the question.

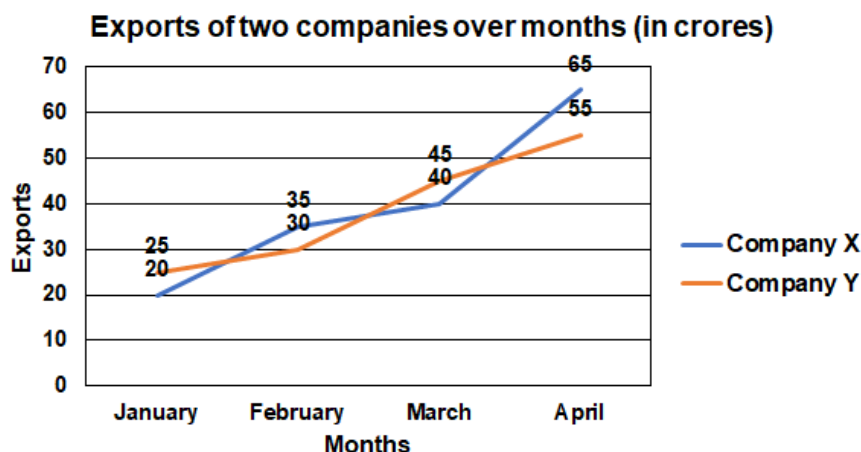
Company	Total no. of employees	Percentage of males	Percentage of females
A	900	60%	40%
B	600	55%	45%
C	500	75%	25%
D	800	65%	35%
E	700	70%	30%

The total number of females in companies B, C and D is what percentage of the total number of males in companies A and E (up to 2 decimal places)?

- (a) 55.63%
- (b) 66.43%
- (c) 60.33%
- (d) 65.53%

Ans.(d)

Q52. Study the following chart and answer the question that follows.



What is the absolute difference between the export by company X in February and export by company Y in April?

- (a) 10 crore
- (b) 20 crore
- (c) 5 crores
- (d) 15 crores

Ans.(b)

Q53. A man spends 45% of his monthly salary on the household, 20% of the remaining on transport and saves the remaining amount of ₹88,000. What is his monthly salary (in ₹)?

- (a) 2,50,000
- (b) 2,22,500
- (c) 2,40,000
- (d) 2,00,000

Ans.(d)

Q54. In what ratio must a grocer mix two varieties of rice worth ₹66 per kg and ₹108 per kg, so that if he sells the mixture at ₹143 per kg, he may gain 43%?

- (a) 4:17
- (b) 3:16
- (c) 1:3
- (d) 7:11

Ans.(a)

Q55. A garrison of 1,210 men has provisions for 16 days. How long (in days) will the provisions last if the garrison be increased by 550 men?

- (a) 9
- (b) 11
- (c) 12
- (d) 10

Ans.(b)

Q56. In a circle with center A, a 18 cm long chord is at a distance of 12 cm from the center. Find the length of the diameter.

- (a) 38 cm
- (b) 28 cm
- (c) 30 cm
- (d) 32 cm

Ans.(c)

Q57. The 7-digit number 39A122B is divisible by 3. What is the minimum value of (A + B)?

- (a) 3
- (b) 1
- (c) 6
- (d) 2

Ans.(b)

Q58. The present ages of two brothers are in the ratio 3 : 5. After 12 years from now, their ages will be in the ratio 9 : 11. What is the current age of the younger brother?

- (a) 18 years
- (b) 12 years
- (c) 6 years
- (d) 10 years

Ans.(c)

Q59. In a room with dimensions $20\text{m} \times 15\text{m} \times 12\text{m}$ has a rectangular window of dimension $1\text{m} \times 2\text{m}$ through which fresh air flows into the room. What should be the airflow rate (in m^3/min) through the window per unit area so that one-fourth of the air in the room would change every hour?

- (a) 2.5
- (b) 7.5
- (c) 9
- (d) 4

Ans.(b)

Q60. The number of positive prime integer < 50 is

- (a) 14
- (b) 25
- (c) 16
- (d) 15

Ans.(d)

Q61. Find the area of a triangle whose vertices are $A(3,2)$, $B(11,6)$, and $C(7,14)$.

- (a) 36 unit^2
- (b) 42 unit^2
- (c) 32 unit^2
- (d) 40 unit^2

Ans.(d)

Q62. In a group of 10 students, the mean of the lowest 9 scores is 46 while the mean of the highest 9 scores is 50. For the entire group of 10 students, the maximum possible mean exceeds the minimum possible mean by:

- (a) 3.6
- (b) 4.3
- (c) 3.2
- (d) 3.4

Ans.(c)

Q63. The value of $\frac{2}{8} + \frac{4}{8} + \frac{5}{16} + \frac{2}{8} - 4$ is

- (a) - 53/16
- (b) - 45/16
- (c) - 33/16
- (d) -43/16

Ans.(d)

Q64. If the mode of a grouped data is 45.2 , lower limit of modal class is 40, class width is 10, $f_1 = 25, f_0 = 18$, what is the value of f_2 ? (Rounded off to the nearest whole number)

- (a) 20
- (b) 19
- (c) 16
- (d) 18

Ans.(b)

Q65. A shopkeeper fixes the marked price of an item 165% above its cost price. What percentage of discount on marked price should be allowed to gain 112%?

- (a) 20%
- (b) 23%
- (c) 21%
- (d) 19%

Ans.(a)

Q66. Arvind bought an article for ₹x. He sold it to Biru at a loss of 11%. Biru spent ₹180 on its transportation and sold it to Minu at a profit of 60%. If Minu bought it for ₹1,000, then what is the value of x?

- (a) 494
- (b) 500
- (c) 503
- (d) 452

Ans.(b)

Q67. The following table shows the number of laptops sold by a company in different cities along with the price per laptop.

City	Laptops Sold	Price per Laptop (₹)
Delhi	120	45,000
Mumbai	150	48,000
Chennai	100	42,000
Kolkata	130	46,000

Find the total revenue (in ₹) generated from laptop sales in Chennai and Kolkata.

- (a) 1,03,80,000
- (b) 1,01,80,000
- (c) 1,04,80,000
- (d) 1,02,80,000

Ans.(b)

Q68. What is the average of the numbers 4, 8, and 12?

- (a) 10
- (b) 8
- (c) 6
- (d) 12

Ans.(b)

Q69. AB and CD are two parallel lines. PQ is a transversal line that intersects AB and CD at L and N, respectively. If $\angle PLB = (2x)^\circ$, $\angle BLQ = (y + 4x)^\circ$, $\angle DNQ = (x + 2y)^\circ$, find the value of y .

- (a) 15
- (b) 60
- (c) 20
- (d) 30

Ans.(b)

Q70. The area of a trapezium is $2,220\text{cm}^2$. Its parallel sides are 29 cm and 31 cm. If the distance between parallel sides is x cm, find the value of x.

- (a) 37
- (b) 62
- (c) 56
- (d) 74

Ans.(d)

Q71. Find the value of m for which it satisfies $\left(\frac{24}{7}\right)^5 \times \left(\frac{7}{24}\right)^{16} \times \left(\frac{24}{7}\right)^6 = \left(\frac{7}{24}\right)^{8m+4}$

- (a) $1/8$
- (b) $-1/8$
- (c) $7/8$
- (d) $5/8$

Ans.(a)

Q72. A solid sphere is melted and recast into 18 identical cones, each having a base radius of 3 cm and height of 18 cm. Find the radius of the sphere.

- (a) 9 cm
- (b) 10 cm
- (c) 7 cm
- (d) 8 cm

Ans.(a)

Q73. The HCF of two numbers is 8, and their LCM is 240. If the sum of the two numbers is 88, what are the numbers?

- (a) 16 and 72
- (b) 32 and 56
- (c) 40 and 48
- (d) 24 and 64

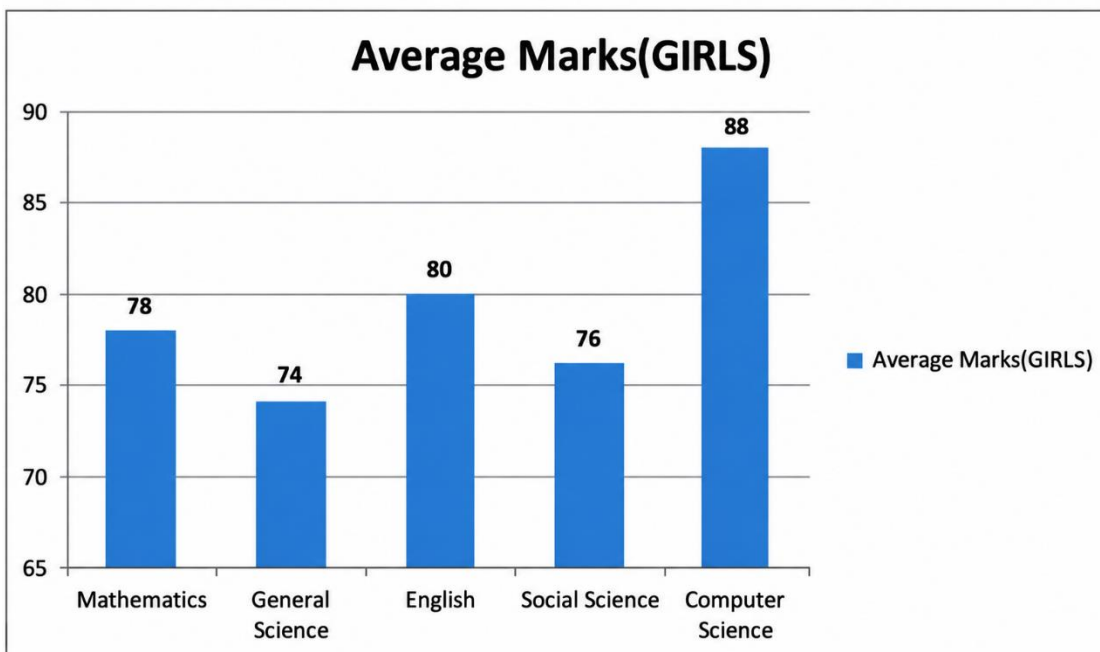
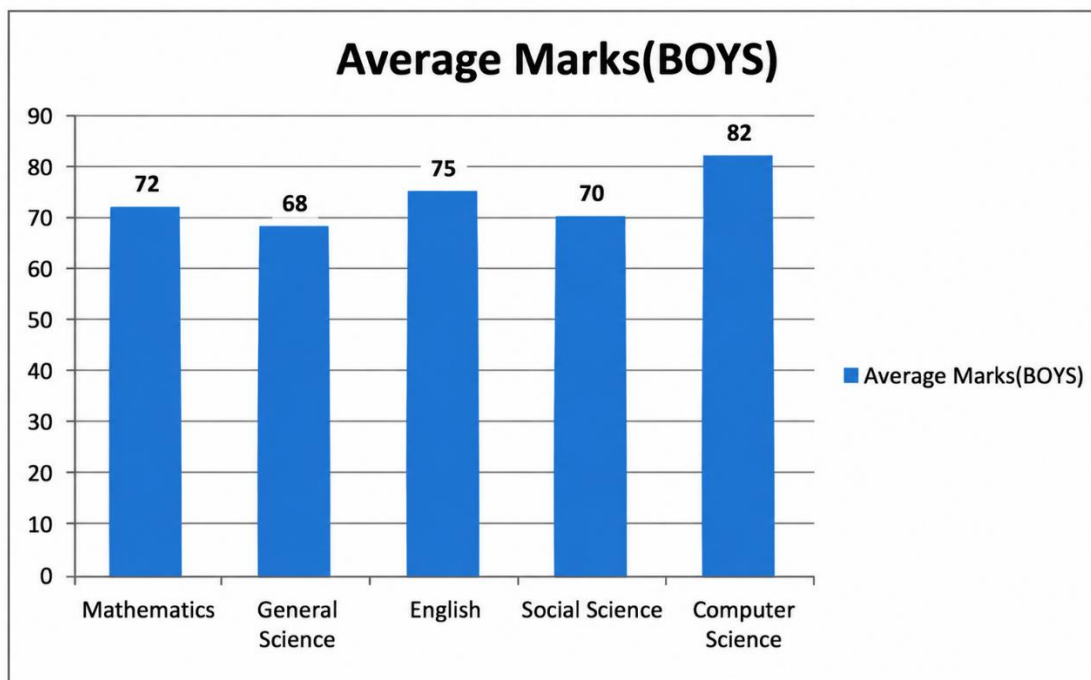
Ans.(c)

Q74. A trader offers "Buy two, get one free" on a certain pair of trousers. If the marked price of the pair of trousers is ₹ 2700, and the trader still earns a profit of 20%, find the cost price of one pair of trousers for the trader.

- (a) ₹ 1,550
- (b) ₹ 1,450
- (c) ₹ 1,500
- (d) ₹ 1,600

Ans.(c)

Q75. The following bar graphs show the average marks (out of 100) in five subjects obtained by Boys and Girls in Class 8 of a school.



Compute the difference between overall average score for Girls and Boys (to one decimal place).

- (a) 5.4
- (b) 5.6
- (c) 5.8
- (d) 5.5

Ans.(c)

Q76. Ravi, Sohan, Raghu and Ani distributed a sum of money amongst themselves in the ratio of 7 : 4 : 6 : 3. If Raghu's share is ₹1,800 more than Ani's share, then what is Sohan's share?

- (a) ₹2,300
- (b) ₹2,200
- (c) ₹2,400
- (d) ₹2,500

Ans.(c)

Q77. A shirt is listed at ₹192 with a discount of 25%. What additional percentage discount must be offered to the customer to bring the net price to ₹108?

- (a) 30%
- (b) 23%
- (c) 25%
- (d) 27%

Ans.(c)

Q78. The simplified value of $\frac{98^6 \times 18^{14} \times 2^{15}}{98^5 \times 18^{13} \times 2^{13}}$ is

- (a) 7058
- (b) 7056
- (c) 7051
- (d) 7055

Ans.(b)

Q79. Solve the following system of 3 equations in 3 unknowns.

$$2x + y - 3z = -4$$

$$4x - 2y + z = 9$$

$$3x + 5y - 2z = 5$$

- (a) $x = 2, y = -1, z = -3$
- (b) $x = 2, y = 1, z = 3$
- (c) $x = -2, y = -1, z = 3$
- (d) $x = -2, y = 1, z = 3$

Ans.(b)

Q80. Three varieties of wheat are mixed in the ratio (weight in kgs) of 4:5:8. When 5 kg of the first variety, 10 kg of the second variety and P kg of the third variety are added to the mixture, the ratio becomes 5:7:9. Find the value of P.

- (a) 4
- (b) 5
- (c) 4.5
- (d) 5.5

Ans.(b)

Q81. Simplify: $\left\{\frac{20}{33} \div \frac{20}{7}\right\} \div \left(\frac{3}{5} \times \frac{10}{9} + \frac{2}{11}\right) + \frac{7}{4} \div \frac{28}{23}$ of $\frac{23}{4}$

- (a) 19/29
- (b) 23/31
- (c) 1/2
- (d) 6/19

Ans.(c)

Q82. A vendor sold 20 chocolates for one rupee and made a profit of 100%. How many chocolates did he originally purchase for one rupee?

- (a) 42
- (b) 46
- (c) 40
- (d) 44

Ans.(c)

Q83. A can complete a piece of work in 12 days and B can complete it in 18 days. If they work on alternate days, starting with B on the first day, then in how many days will the work be completed?

- (a) 15
- (b) 14
- (c) $14\frac{1}{2}$
- (d) $15\frac{1}{2}$

Ans.(c)

Q84. Median of the data 8, 4, 2, 1, 5, 3, 2, 1, 4, 2, 8, 1, 2, 9, 0, 4, 5, 4, 6, 7, 11, 3, 13, -1 is _____.

- (a) 3
- (b) 3.5
- (c) 4.5
- (d) 4

Ans.(d)

Q85. A man buys 12 identical articles for a total of ₹20. If he sells each of them for ₹2.1, then what is his profit percentage?

- (a) 27%
- (b) 21.63%
- (c) 20.63%
- (d) 26%

Ans.(d)

Q86. The fourth proportional of the numbers x, (x+2) and 3x is 33. Find the second proportional; x is a natural number.

- (a) 18
- (b) 11
- (c) 9
- (d) 27

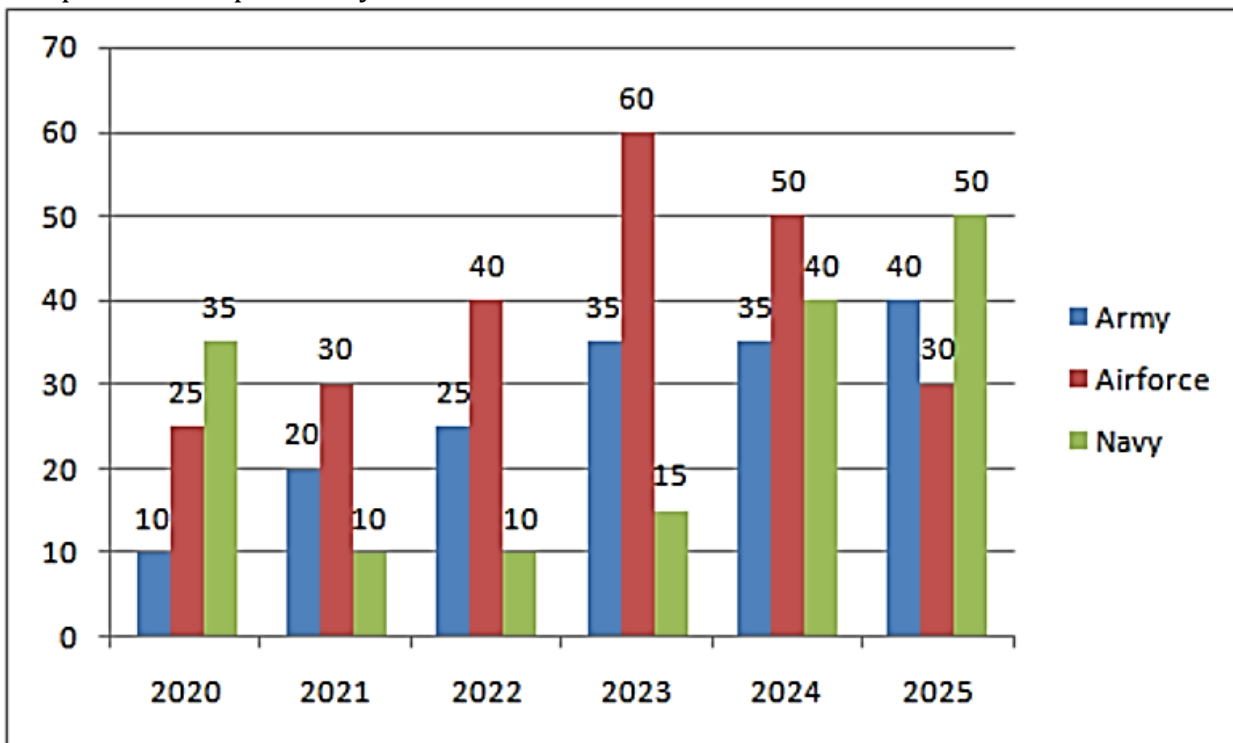
Ans.(b)

Q87. A coin is thrown eight times. The probability of getting exactly five tails is:

- (a) 0.22
- (b) 0.11
- (c) 0.78
- (d) 0.28

Ans.(a)

Q88. The following bar graph shows the number of soldiers recruited (in thousands) in three different forces in six different years. Study the following graph carefully to answer the question that follows. What was the percentage increase in the number of soldiers recruited in Airforce in the year 2022 as compared to the previous year?



- (a) $33\frac{1}{3}\%$
- (b) $30\frac{1}{3}\%$
- (c) $32\frac{1}{3}\%$
- (d) $31\frac{1}{3}\%$

Ans.(a)

Q89. The sum of the surface areas of two spheres is 12584π sq. cm. The radius of the larger sphere is five times the radius of the smaller sphere. Find the diameter of the larger sphere.

- (a) 110 cm
- (b) 125 cm
- (c) 115 cm
- (d) 120 cm

Ans.(a)

Q90. If three cards are drawn one by one randomly from a pack of 52 cards, then what is the probability that three of them are jack?

- (a) $\frac{3}{5525}$
 (b) $\frac{1}{5525}$
 (c) $\frac{4}{555}$
 (d) $\frac{3}{552}$

Ans.(b)

Q91. Pipe A can fill a tank in 6 hours, pipe B can fill the same tank in 30 hours and pipe C can fill the same tank in 20 hours. The time taken (in hours) by them to fill one-fourth of the same tank if they operate together is:

- (a) 2
 (b) 4
 (c) 3
 (d) 1

Ans.(d)

Q92. In a linear race of 750 meters, X can beat Y by 10 meters. In a race of 444 meters, Y can beat Z by 6 meters. In a race of 150 meters, X will beat Z by how many meters?

- (a) 3
 (b) 4
 (c) 2
 (d) 6

Ans.(b)

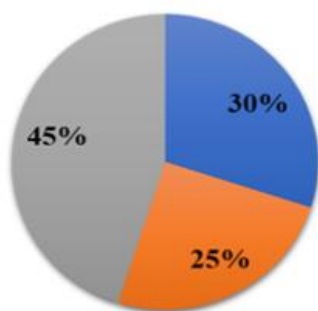
Q93. The value of $\{18 + [24 \div (3 \text{ of } 2)] \times 4\} - 10$ is equal to:

- (a) 40
 (b) 28
 (c) 24
 (d) 72

Ans.(c)

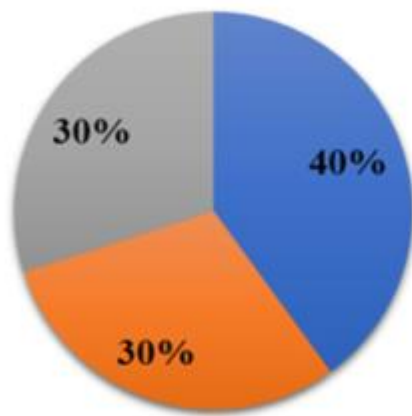
Q94. The given pie charts show the distribution of students in different streams in two schools, A and B. If school A has 1000 students and school B has 1200 students, what is the difference in the number of students in the science stream between the two schools?

SCHOOL A



■ Science ■ Commerce ■ Arts

SCHOOL B



■ Science ■ Commerce ■ Arts

- (a) 100
- (b) 180
- (c) 200
- (d) 150

Ans.(b)

Q95. In a survey, 4 people rated a product 5 and 6 people rated it 3. What is the weighted average rating?

- (a) 3.5
- (b) 4.0
- (c) 3.8
- (d) 4.2

Ans.(c)

Q96. A boat travels a certain distance. The ratio of the time taken by the boat to travel downstream to the time taken to travel upstream is 5:7. If the downstream speed is 21 km/h, find the speed of the boat in still water.

- (a) 12 km/h
- (b) 13 km/h
- (c) 18 km/h
- (d) 9 km/h

Ans.(c)

Q97. Simplify the algebraic expression.

$$a^2(a + 2) - 3a(a^2 - 3) - 5a(a + 5)$$

- (a) $a^3 - 3a^2 - 16a$
- (b) $2a^3 - 3a^2 - 16$
- (c) $-2a^3 - 3a^2 - 16a$
- (d) $-2a^3 - a^2 - 16a$

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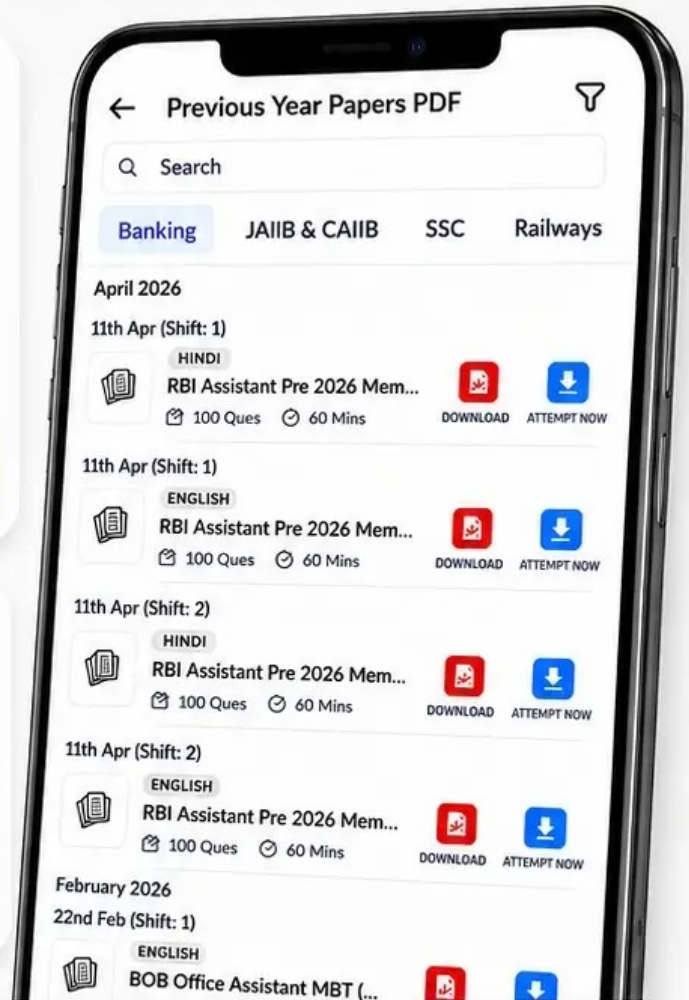
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Mohan, SSC JE (ELCT)



Saurabh, UGC NET



Ved, SSC JE (Mech)

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Ans.(c)

Q98. The price of an article is successively increased by 9% and 13%. Find the percentage increase in the price of the article.

- (a) 23.17%
- (b) 22.57%
- (c) 20.68%
- (d) 24.69%

Ans.(a)

Q99. The median of the data given below is ____, approximately.

Class	Frequency
0-25	6
25-50	4
50-75	9
75-100	5

- (a) 56.66
- (b) 54.44
- (c) 55.55
- (d) 57.77

Ans.(c)

Q100. Ratio of the incomes of 'A' , 'B' and 'C' last year was 3:4:5. The ratio of their individual income of the last year and this year are 4:5, 2:3 and 3:4 respectively. If the sum of their present incomes is Rs.78800/- then find the present individual incomes of 'A', 'B', & 'C' respectively?

- (a) Rs.32,000/-, Rs.18,000/- & Rs.28,800/-
- (b) Rs.18,000/- Rs.28,800/- & Rs.32,000/-
- (c) Rs.21,000/-, 23,400/- & 25,100/-
- (d) None of the above

Ans.(b)