

IBPS RRB Clerk Prelims Memory Based Paper PDF (Sep 24, 2017)

Q1. In the following question, two equations I and II are given. Solve both the equations and give answer: I. $x^2 + 13x + 40 = 0$ II. $y^2 + 12y + 32 = 0$

- (a) if $x = y$ or relationship cannot be established
- (b) if $x \geq y$
- (c) if $x > y$
- (d) if $x \leq y$
- (e) if $x < y$

Q2. Two numbers are in the ratio 5:7. If 20 is added to both, the ratio becomes 7:9. Find the smaller number.

- (a) 60
- (b) 45
- (c) 65
- (d) 50
- (e) 55

Q3. Five friends P, Q, R, S and T are ranked based on their marks. P scored more than Q but less than R. S scored the highest. T scored less than Q. Who scored the least?

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

Q4. The average age of 5 members of a family is 32 years. If the age of the youngest member is 12 years, the average age of the family at the time of the birth of the youngest member was:

- (a) 23 years
- (b) 25 years
- (c) 27 years
- (d) 24 years
- (e) 26 years

Q5. Statements: $X > Y \geq Z$, $Z > W$. Conclusions: I. $X > W$ II. $Y > W$

- (a) Both follow
- (b) Only I follows
- (c) Only II follows
- (d) Either follows
- (e) Neither follows

Q6. In the following question, two equations I and II are given. Solve both the equations and give answer: I. $x^2 - 5x + 6 = 0$ II. $y^2 - 10y + 24 = 0$

- (a) if $x \geq y$
- (b) if $x > y$
- (c) if $x \leq y$
- (d) if $x = y$ or relationship cannot be established
- (e) if $x < y$

Q7. How many such pairs of letters are there in the word 'COMPUTER' each of which has as many letters between them (in the word, in both forward and backward direction) as in the English alphabet?

- (a) None
- (b) Four
- (c) Three

- (d) One
- (e) Two

Q8. Statements: $A < B \leq C > D \geq E$. Conclusions: I. $C > A$ II. $B \geq E$

- (a) Only II follows
- (b) Either follows
- (c) Neither follows
- (d) Both follow
- (e) Only I follows

Q9-Q13. Study the information carefully and answer the questions given below.

Seven persons - P, Q, R, S, T, U and V - live on seven different floors of a building, the ground floor being numbered 1 and the topmost floor numbered 7. R lives on floor 5. Only two persons live between R and T. S lives immediately above T. Only three persons live between S and Q. U lives immediately below Q. Only one person lives between U and V. P lives above V.

Q9. Who lives on the topmost floor?

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

Q10. How many persons live between T and Q?

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

Q11. Which of the following persons lives on floor 2?

- (a) P
- (b) Q
- (c) V
- (d) U
- (e) R

Q12. R lives on which of the following floors relative to U?

- (a) Two floors below
- (b) Immediately below
- (c) Immediately above
- (d) Same floor
- (e) Two floors above

Q13. Four of the following five are alike in a certain way based on their floor position. Which does not belong?

- (a) Q-Floor 4
- (b) V-Floor 2
- (c) T-Floor 3
- (d) U-Floor 3
- (e) P-Floor 7

Q14. The speed of a boat in still water is 15 km/hr and the speed of the stream is 3 km/hr. Find the time taken by the boat to cover 72 km downstream.

- (a) 4.2 hours
- (b) 5 hours

- (c) 4.5 hours
- (d) 3.5 hours
- (e) 4 hours

Q15. What will come in place of the question mark (?) in the following equation? $(22 + 8) \times 2 - 21 = ?$

- (a) 44
- (b) 45
- (c) 39
- (d) 40
- (e) 37

Q16. The present age of a father is 3 times that of his son. After 10 years, the father's age will be twice that of his son. Find the present age of the son.

- (a) 8 years
- (b) 10 years
- (c) 12 years
- (d) 15 years
- (e) 9 years

Q17. Pointing to a man, a woman said, 'His mother is the only daughter of my mother.' How is the woman related to the man?

- (a) Daughter
- (b) Aunt
- (c) Mother
- (d) Sister
- (e) Grandmother

Q18. A is the brother of B. B is the sister of C. C is the father of D. How is A related to D?

- (a) Father
- (b) Uncle
- (c) Cousin
- (d) Grandfather
- (e) Brother

Q19. In the following question, two equations I and II are given. Solve both the equations and give answer: I. $x^2 - 13x + 40 = 0$ II. $y^2 + 10y + 16 = 0$

- (a) if $x < y$
- (b) if $x = y$ or relationship cannot be established
- (c) if $x \leq y$
- (d) if $x \geq y$
- (e) if $x > y$

Q20. A shopkeeper marks an article 40% above the cost price and gives a discount of 15%. Find his profit percentage.

- (a) 18%
- (b) 19%
- (c) 22%
- (d) 21%
- (e) 20%

Q21. The compound interest on Rs. 8,000 for 2 years at 10% per annum compounded annually is:

- (a) Rs. 1,720
- (b) Rs. 1,600
- (c) Rs. 1,650

- (d) Rs. 1,680
- (e) Rs. 1,800

*Q22-Q26. Study the bar graph given below and answer the questions that follow.
Number of employees working in five branches of a company:*

*Delhi: 535
Mumbai: 218
Chennai: 501
Kolkata: 583
Pune: 309*

Q22. What is the total number of employees working across all five branches?

- (a) 2415
- (b) 1896
- (c) 2393
- (d) 2087
- (e) 2146

Q23. What is the average number of employees per branch?

- (a) 429.2
- (b) 439.05
- (c) 435.49
- (d) 435.48
- (e) 426.76

Q24. What is the difference between the number of employees in Delhi and Mumbai?

- (a) 340
- (b) 317
- (c) 283
- (d) 281
- (e) 359

Q25. Employees in Chennai form what approximate percentage of the total employees (across all branches)?

- (a) 26.43
- (b) 26.32
- (c) 25.94
- (d) 23.35
- (e) 25.33

Q26. Which branch has the highest number of employees?

- (a) Mumbai
- (b) Kolkata
- (c) Delhi
- (d) Pune
- (e) Chennai

**Q27. Statements: All mangoes are fruits. Some fruits are vegetables. No vegetable is a root.
Conclusions: I. Some mangoes are vegetables. II. No fruit is a root.**

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

Q28. What will come in place of the question mark (?) in the following equation? $19^2 - 6^2 + 4 = ?$

- (a) 331
- (b) 290
- (c) 353
- (d) 359
- (e) 329

Q29. In a certain code, 'MOBILE' is written as 'NPCJMF'. How is 'TABLET' written in that code?

- (a) VBCMFU
- (b) UBCMEU
- (c) UBCMFV
- (d) UCBMFU
- (e) UBCMFU

Q30. If the length of a rectangle is increased by 20% and breadth is decreased by 10%, find the percentage change in area.

- (a) 8% increase
- (b) 8% decrease
- (c) 6% increase
- (d) 10% increase
- (e) 12% increase

Q31. In a row of children, Meena is 12th from the left and 18th from the right. How many children are there in the row?

- (a) 28
- (b) 30
- (c) 31
- (d) 27
- (e) 29

Q32. Rahul walks 10 m north, then turns right and walks 6 m, then turns right again and walks 10 m. How far is he from his starting point?

- (a) 4 m
- (b) 20 m
- (c) 6 m
- (d) 16 m
- (e) 10 m

Q33. Working alone, A takes 10 days more than A and B together to complete a work; B takes 40 days more than A and B together. In how many days can A and B together complete the work?

- (a) 25 days
- (b) 20 days
- (c) 24 days
- (d) 18 days
- (e) 22 days

Q34. What will come in place of the question mark (?) in the following number series? 4, 7, 17, ?, 75, 153

- (a) 35
- (b) 30
- (c) 38
- (d) 36
- (e) 37

Q35. In a code language, 'ROSE' is '6821', 'CHAIR' is '73456', 'PREACH' is '961473'. What is the code for 'A'?

- (a) 9
- (b) 3
- (c) 4
- (d) 7
- (e) 6

Q36-Q40. Study the table given below and answer the questions that follow.

Number of units of five products (A, B, C, D, E) sold by a company during 2020-2024 (in thousands):

Year	A	B	C	D	E
2020	278	130	459	443	458
2021	451	191	301	202	373
2022	431	309	244	255	377
2023	240	306	241	435	133
2024	440	163	153	130	428

Q36. What is the total number of units of product B sold during 2020 to 2024 (in thousands)?

- (a) 1000
- (b) 1178
- (c) 1099
- (d) 1057
- (e) 1082

Q37. What is the average number of units of product A sold per year (in thousands)?

- (a) 368
- (b) 374
- (c) 370
- (d) 365
- (e) 385

Q38. What is the percentage change in units of product C sold from 2022 to 2023 (in thousands)?

- (a) 3.94
- (b) -6.27
- (c) -4.36
- (d) -4.49
- (e) -1.23

Q39. What is the ratio of units of product D sold in 2021 to units of product E sold in 2021?

- (a) 2:4
- (b) 4:4
- (c) 202:373
- (d) 9:4
- (e) 3:2

Q40. In which year was the total number of units sold (across all five products) the highest?

- (a) 2024
- (b) 2022
- (c) 2023
- (d) 2020
- (e) 2021

Q41. In a class of 40 students, Rohan ranks 15th from the top. What is his rank from the bottom?

- (a) 25th

- (b) 23rd
- (c) 24th
- (d) 27th
- (e) 26th

Q42. Statements: $K < L = M > N \Leftrightarrow O$. Conclusions: I. $M > O$ II. $L > N$

- (a) Both follow
- (b) Neither follows
- (c) Only I follows
- (d) Either follows
- (e) Only II follows

Q43. What will come in place of the question mark (?) in the following number series? 10, 15, 22, 31, ?, 55

- (a) 48
- (b) 39
- (c) 43
- (d) 42
- (e) 47

Q44. A sum of money doubles itself in 8 years at simple interest. Find the rate of interest per annum.

- (a) 14%
- (b) 15%
- (c) 12.5%
- (d) 11%
- (e) 10%

Q45. In the following question, two equations I and II are given. Solve both the equations and give answer: I. $x^2 + 10x + 24 = 0$ II. $y^2 - 3y - 54 = 0$

- (a) if $x \leq y$
- (b) if $x \geq y$
- (c) if $x = y$ or relationship cannot be established
- (d) if $x < y$
- (e) if $x > y$

Q46. If the letters of the word 'BANKING' are arranged in alphabetical order, which letter remains in the same position?

- (a) B
- (b) G
- (c) N
- (d) A
- (e) K

Q47. If 'FRIEND' is coded as '8135914', how is 'ENDING' coded (using the same letter-number code)?

- (a) 591465
- (b) 581467
- (c) 591467
- (d) 591567
- (e) 591476

Q48. What will come in place of the question mark (?) in the following number series? 9, ?, 35, 68, 133, 262

- (a) 19
- (b) 21

- (c) 18
- (d) 17
- (e) 20

Q49. Statements: All rivers are lakes. No lake is an ocean. Some oceans are seas. Conclusions: I. No river is an ocean. II. Some seas are not lakes.

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

Q50. Statements: All pens are books. All books are copies. No copy is a pencil. Conclusions: I. No pen is a pencil. II. Some books are pens.

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

Q51. A, B and C invest in a business in the ratio 3:4:5. If the total profit at the end of the year is Rs. 48,000, find B's share.

- (a) Rs. 16,000
- (b) Rs. 12,000
- (c) Rs. 18,000
- (d) Rs. 14,000
- (e) Rs. 20,000

Q52. In the series 4B9, 8D16, 16F32, ?, find the missing term.

- (a) 32G64
- (b) 34H64
- (c) 30H64
- (d) 32H62
- (e) 32H64

Q53. A can complete a piece of work in 12 days and B in 18 days. Working together, in how many days will they complete the work?

- (a) 6.8 days
- (b) 7.2 days
- (c) 7.5 days
- (d) 6.5 days
- (e) 8 days

Q54. Point A is 5 km east of point B. Point C is 12 km north of point A. What is the distance between B and C?

- (a) 10 km
- (b) 15 km
- (c) 17 km
- (d) 7 km
- (e) 13 km

Q55. A sum of Rs. 12,500 is invested at simple interest at the rate of 8% per annum for 3 years. What is the interest earned?

- (a) Rs. 3,500
- (b) Rs. 3,200
- (c) Rs. 2,500

- (d) Rs. 3,000
- (e) Rs. 2,800

Q56. Statements: $P > Q \geq R = S < T$. Conclusions: I. $P > S$ II. $Q > T$

- (a) Both follow
- (b) Either follows
- (c) Neither follows
- (d) Only II follows
- (e) Only I follows

Q57. A man walks 8 km south, then turns left and walks 8 km, then turns left again and walks 8 km. In which direction is he from his starting point?

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

Q58. A vessel contains a mixture of milk and water in the ratio 4:1. If 10 litres of water is added, the ratio becomes 2:1. Find the initial quantity of milk in the vessel.

- (a) 32 litres
- (b) 44 litres
- (c) 48 litres
- (d) 36 litres
- (e) 40 litres

Q59. Statements: $M \geq N > O = P < Q$. Conclusions: I. $M > P$ II. $N > Q$

- (a) Only I follows
- (b) Either follows
- (c) Both follow
- (d) Only II follows
- (e) Neither follows

Q60. Statements: Some doctors are engineers. All engineers are teachers. No teacher is a lawyer. Conclusions: I. No engineer is a lawyer. II. Some doctors are teachers.

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

Q61. What will come in place of the question mark (?) in the following equation? $177 / 2 + 34 - 14 = ?$

- (a) 111.46
- (b) 106.17
- (c) 118.71
- (d) 108.5
- (e) 109.65

Q62. In the following question, two equations I and II are given. Solve both the equations and give answer: I. $x^2 + 2x - 24 = 0$ II. $y^2 - 11y + 18 = 0$

- (a) if $x \geq y$
- (b) if $x \leq y$
- (c) if $x > y$
- (d) if $x = y$ or relationship cannot be established
- (e) if $x < y$

Q63. What will come in place of the question mark (?) in the following equation? $41 \times 4 - 2 \times 17 = ?$

- (a) 141
- (b) 115
- (c) 130
- (d) 134
- (e) 123

Q64-Q68. Study the information carefully and answer the questions given below.

Eight friends - A, B, C, D, E, F, G and H - sit in a straight line. Some face north and some face south (not necessarily in the same order). D sits third from the left end and faces north. Only two persons sit between D and F. B sits second to the right of F and faces south. Only one person sits between B and G. E sits immediately left of G and faces the same direction as D. C sits second to the left of H, who is an immediate neighbour of A. A faces south.

Q64. How many persons in the group face north?

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

Q65. Who sits at the extreme left end of the line?

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

Q66. Which of the following is true regarding D?

- (a) D faces south
- (b) D is an immediate neighbour of B
- (c) None of the above
- (d) Only two persons sit to the right of D
- (e) D sits at an extreme end

Q67. Who sits exactly between F and B?

- (a) D
- (b) G
- (c) E
- (d) No one
- (e) A

Q68. Four of the following five are alike in a certain way and hence form a group. Which one does not belong to that group?

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

Q69. What will come in place of the question mark (?) in the following equation? $17 \times 11 - 4 \times 25 = ?$

- (a) 87
- (b) 80

- (c) 89
- (d) 98
- (e) 81

Q70. What will come in place of the question mark (?) in the following number series? 19, 23, 29, 33, 39, ?

- (a) 51
- (b) 44
- (c) 39
- (d) 43
- (e) 35

Q71. In what ratio must a shopkeeper mix two varieties of rice costing Rs. 60/kg and Rs. 80/kg so that the mixture costs Rs. 68/kg?

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

Q72. Pointing to a photograph, Ram said, 'She is the daughter of my grandfather's only son.' How is the girl in the photograph related to Ram?

- (a) Mother
- (b) Niece
- (c) Cousin
- (d) Daughter
- (e) Sister

Q73. What will come in place of the question mark (?) in the following number series? 25, 35, ?, 65, 82, 100

- (a) 47
- (b) 46
- (c) 48
- (d) 52
- (e) 39

Q74-Q78. Study the information carefully and answer the questions given below.

Eight persons - J, K, L, M, N, O, P and Q - sit around a circular table facing the centre (not necessarily in the same order).

J sits third to the right of M. K sits second to the left of J. Two persons sit between K and L. N sits immediately right of L. O sits third to the right of N. P sits second to the left of Q, who is not an immediate neighbour of J.

Q74. Who sits third to the right of K?

- (a) O
- (b) L
- (c) N
- (d) Q
- (e) P

Q75. How many persons sit between L and J when counted from L's left?

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

Q76. Which of the following pairs sits immediately next to each other?

- (a) M, P
- (b) K, N
- (c) J, L
- (d) J, O
- (e) L, Q

Q77. Who sits exactly opposite to Q?

- (a) J
- (b) O
- (c) N
- (d) K
- (e) L

Q78. Who among the following sits second to the left of O?

- (a) K
- (b) M
- (c) J
- (d) L
- (e) N

Q79. A train 180 m long crosses a platform 220 m long in 20 seconds. Find the speed of the train in km/hr.

- (a) 72 km/hr
- (b) 70 km/hr
- (c) 75 km/hr
- (d) 68 km/hr
- (e) 65 km/hr

Q80. Statements: Some tables are chairs. All chairs are stools. Some stools are benches.

Conclusions: I. Some tables are stools. II. Some benches are chairs.

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