

IBPS RRB PO 2021 Prelims Memory Based Paper PDF

Q1. I. $x^2 + 7x - 8 = 0$ II. $y^2 + 7y - 8 = 0$. On solving both equations, find the relation between x and y.

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

Q2. I. $x^2 + 2x - 80 = 0$ II. $y^2 - 17y + 66 = 0$. On solving both equations, find the relation between x and y.

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

Q3. Is the number x an even number?

I. x is completely divisible by 12.

II. x is completely divisible by 4.

- (a) Both statements I and II together are necessary
- (b) Either statement I or II alone is sufficient
- (c) Neither statement I nor II is sufficient
- (d) Only statement II alone is sufficient
- (e) Only statement I alone is sufficient

Q4. Study the following sequence carefully and answer the question given below:

@ 0 8 J % N B 7 # 4 H % #

How many times does a letter is immediately preceded by a digit and immediately followed by a digit in the above sequence?

- (a) None of these
- (b) 1
- (c) 0
- (d) 2
- (e) 3

Q5. I. $x^2 + 3x - 18 = 0$ II. $y^2 - 19y + 90 = 0$. On solving both equations, find the relation between x and y.

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

Q6. $\sqrt{36 \times 29} - (12 \times 2) + 16 = ?$

- (a) 166
- (b) 187.20
- (c) 147.83
- (d) 149.47
- (e) None of these

Q7. In a certain code language, 'Meena works hard' is written as '2 5 9' and 'Rohit works daily' is written as '8 5 7'. What is the code for 'works' in this language?

- (a) 7
- (b) 5
- (c) 8
- (d) 9
- (e) 2

Q8. Study the following sequence carefully and answer the question given below:

L X 7 % Y 3 0 0 * A C 6 Z

How many times does a letter is immediately preceded by a digit and immediately followed by a digit in the above sequence?

- (a) 2
- (b) None of these
- (c) 0
- (d) 3
- (e) 1

Q9. In a class of 27 students, Divya ranks 6th from the top. What is Divya's rank from the bottom?

- (a) None of these
- (b) 18
- (c) 25
- (d) 19
- (e) 22

Q10. Two numbers are in the ratio 2:6 and their sum is 544. Find the larger number.

- (a) 452.86
- (b) 408
- (c) None of these
- (d) 387.79
- (e) 388.29

Q11. In a certain code language, 'Deepak works hard' is written as '9 1 8' and 'Manoj works daily' is written as '3 1 7'. What is the code for 'works' in this language?

- (a) 1
- (b) 8
- (c) 3
- (d) 9
- (e) 7

Q12. Statement: $A = G < B > H$

Conclusions: I. $A = B$ II. $G > H$

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

Q13. Is the number x an even number?

I. x is completely divisible by 4.

II. x is completely divisible by 10.

- (a) Both statements I and II together are necessary
- (b) Only statement II alone is sufficient
- (c) Only statement I alone is sufficient
- (d) Neither statement I nor II is sufficient

(e) Either statement I or II alone is sufficient

Q14-Q18. Six persons Anita, Arjun, Deepak, Isha, Nisha, Tarun sit around a circular table facing the centre, not necessarily in the same order. Arjun sits second to the right of Anita. Tarun sits third to the left of Anita. Isha sits immediate right of Tarun. Deepak sits between Arjun and Nisha.

Q14. Who sits second to the right of Anita?

- (a) Deepak
- (b) Anita
- (c) Nisha
- (d) Tarun
- (e) Arjun

Q15. Who sits immediate right of Tarun?

- (a) Isha
- (b) Nisha
- (c) Tarun
- (d) Arjun
- (e) Anita

Q16. Who sits between Arjun and Nisha?

- (a) Isha
- (b) Deepak
- (c) Arjun
- (d) Tarun
- (e) Nisha

Q17. Who sits third to the left of Anita?

- (a) Nisha
- (b) Isha
- (c) Arjun
- (d) Deepak
- (e) Tarun

Q18. How many persons are seated around the table?

- (a) 7
- (b) 8
- (c) 6
- (d) 5
- (e) 4

Q19. Find the missing term: 3, 6, 12, 24, ?, 96

- (a) 57
- (b) None of these
- (c) 52
- (d) 48
- (e) 40

Q20. Pipe A can fill a tank in 8 hours and Pipe B can fill the same tank in 18 hours. If both pipes are opened together, find the time taken to fill the tank (in hours).

- (a) 5.89
- (b) 6
- (c) 5.54
- (d) None of these

(e) 6.39

Q21. Tarun introduced Nisha as the son of the only brother of Tarun's mother. How is Nisha related to Tarun?

- (a) Nephew
- (b) Cousin
- (c) Son
- (d) Brother
- (e) Uncle

Q22. I. $x^2 - 12x + 32 = 0$ II. $y^2 + 11y + 18 = 0$. On solving both equations, find the relation between x and y .

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

Q23. Find the missing term: 5, 9, 13, 17, ?, 25

- (a) None of these
- (b) 18
- (c) 21
- (d) 20
- (e) 17

Q24. Find the missing term: 9, 18, ?, 72, 144, 288

- (a) 33
- (b) None of these
- (c) 34
- (d) 36
- (e) 28

Q25. Gaurav walks 10 km towards North, then turns right and walks 7 km. He then turns right again and walks 10 km. In which direction is Gaurav now with respect to his starting point?

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

Q26-Q30. Seven persons Gaurav, Isha, Komal, Payal, Rajesh, Sanjay, Vikas sit in a row facing north, not necessarily in the same order. Rajesh sits at the extreme left end. Payal sits at the extreme right end. Isha sits exactly in the middle of the row. Sanjay sits second from the left end. Vikas sits to the immediate right of Sanjay. Komal sits second from the right end. Gaurav sits between Isha and Komal.

Q26. Who sits third from the left end?

- (a) Payal
- (b) Rajesh
- (c) Gaurav
- (d) Vikas
- (e) Isha

Q27. How many persons sit to the right of Isha?

- (a) 5
- (b) 3
- (c) 1
- (d) 2
- (e) 4

Q28. Who sits immediate left of Isha?

- (a) Vikas
- (b) Payal
- (c) Rajesh
- (d) Gaurav
- (e) Komal

Q29. Which of the following sits at the extreme right end of the row?

- (a) Komal
- (b) Vikas
- (c) Gaurav
- (d) Payal
- (e) Rajesh

Q30. Who sits exactly between Isha and Komal?

- (a) Rajesh
- (b) Payal
- (c) Komal
- (d) Gaurav
- (e) Vikas

Q31. $(11^4) - (4^3) + 28 \div 4 = ?$

- (a) 15212.76
- (b) 15182
- (c) None of these
- (d) 14584
- (e) 16508.77

Q32-Q36. Seven persons Arjun, Deepak, Naveen, Sanjay, Sonia, Suresh, Tarun live on seven different floors of a building, numbered 1 to 7 from bottom to top (floor 1 being the lowest), not necessarily in the same order. Sanjay lives on the lowest floor. Arjun lives on the topmost floor. Tarun lives exactly in the middle floor. Naveen lives immediately above Sanjay. Sonia lives immediately above Naveen. Suresh lives immediately below Arjun. Deepak lives exactly between Tarun and Suresh.

Q32. Who lives on the 3rd floor?

- (a) Suresh
- (b) Arjun
- (c) Naveen
- (d) Sonia
- (e) Deepak

Q33. How many persons live above the floor of Tarun?

- (a) 1
- (b) 5
- (c) 2
- (d) 4
- (e) 3

Q34. Who lives immediately below Tarun?

- (a) Sanjay
- (b) Arjun
- (c) Suresh
- (d) Deepak
- (e) Sonia

Q35. Who lives on the topmost floor?

- (a) Naveen
- (b) Sonia
- (c) Deepak
- (d) Arjun
- (e) Tarun

Q36. Who lives exactly between the floors of Tarun and Suresh?

- (a) Naveen
- (b) Sonia
- (c) Arjun
- (d) Deepak
- (e) Sanjay

Q37. I. $x^2 + 17x + 70 = 0$ II. $y^2 - 7y + 10 = 0$. On solving both equations, find the relation between x and y .

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

Q38. In a class of 21 students, Anita ranks 15th from the top. What is Anita's rank from the bottom?

- (a) None of these
- (b) 6
- (c) 5
- (d) 7
- (e) 8

Q39. Statement: $A = C < G > E$

Conclusions: I. $A < G$ II. $C > E$

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

Q40-Q44. The pie chart below shows the percentage distribution of 3400 students enrolled across six streams A, B, C, D, E, F. Study it and answer the questions that follow.

A: 20%, B: 20%, C: 22%, D: 7%, E: 19%, F: 12%

Q40. How many students are enrolled in stream F?

- (a) 354
- (b) None of these
- (c) 408

- (d) 445
- (e) 358

Q41. What is the difference between the number of students in stream F and stream E?

- (a) 238
- (b) 256
- (c) None of these
- (d) 209
- (e) 258

Q42. What is the central angle (in degrees) representing stream E in the pie chart?

- (a) 68.40
- (b) 64.46
- (c) None of these
- (d) 74.13
- (e) 75.91

Q43. What is the ratio of the number of students in stream A to stream D?

- (a) None of these
- (b) 19:5
- (c) 2:1
- (d) 19:8
- (e) 20:7

Q44. How many students are NOT enrolled in stream B?

- (a) 2374
- (b) 2861
- (c) 2567
- (d) None of these
- (e) 2720

Q45-Q49. The bar graph below shows the number of units (in tens) of two products P and Q sold by a store over six months. Study it and answer the questions that follow.

Product P: Jan-105, Feb-215, Mar-80, Apr-170, May-245, Jun-135

Product Q: Jan-70, Feb-75, Mar-200, Apr-185, May-210, Jun-125

Q45. What is the total number of units (in tens) of products P and Q sold together in Feb?

- (a) None of these
- (b) 256
- (c) 270
- (d) 290
- (e) 259

Q46. What is the difference in units sold between Product P and Product Q in May?

- (a) 41
- (b) None of these
- (c) 42
- (d) 26
- (e) 35

Q47. Find the average monthly sale (in tens) of Product P over the six months.

- (a) 137.59
- (b) None of these
- (c) 177.10

- (d) 179.17
- (e) 158.33

Q48. What is the total number of units (in tens) of Product Q sold over all six months?

- (a) 893
- (b) 958
- (c) 948
- (d) 865
- (e) None of these

Q49. What is the ratio of units sold of Product P to Product Q in Feb?

- (a) None of these
- (b) 43:15
- (c) 21:8
- (d) 5:2
- (e) 14:5

Q50. In a class of 33 students, Aman ranks 18th from the top. What is Aman's rank from the bottom?

- (a) 15
- (b) 18
- (c) 19
- (d) 16
- (e) None of these

Q51. Who is the tallest among Tarun, Nisha, Suresh, Naveen and Rajesh?

I. Suresh is taller than Tarun and Naveen but shorter than Nisha.

II. Rajesh is the tallest of all five.

- (a) Either statement I or II alone is sufficient
- (b) Only statement II alone is sufficient
- (c) Neither statement I nor II is sufficient
- (d) Both statements I and II together are necessary
- (e) Only statement I alone is sufficient

Q52. Statement: $D > C > A < H$

Conclusions: I. $D = A$ II. $C > H$

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

Q53. Who is the tallest among Neha, Isha, Arjun, Rahul and Ritu?

I. Arjun is taller than Neha and Rahul but shorter than Isha.

II. Ritu is the tallest of all five.

- (a) Either statement I or II alone is sufficient
- (b) Only statement I alone is sufficient
- (c) Only statement II alone is sufficient
- (d) Both statements I and II together are necessary
- (e) Neither statement I nor II is sufficient

Q54. What is the area of a rectangle?

I. The length of the rectangle is 9 cm.

II. The perimeter of the rectangle is 44 cm.

- (a) Only statement I alone is sufficient
- (b) Both statements I and II together are necessary
- (c) Neither statement I nor II is sufficient
- (d) Either statement I or II alone is sufficient
- (e) Only statement II alone is sufficient

Q55. Statements: All Doors are Pens. All Pens are Tables. No Tables is Cups.

Conclusions: I. All Doors are Tables. II. No Doors is Cups. III. Some Pens are not Cups.

- (a) Only I and III follow
- (b) Only II and III follow
- (c) None of the conclusions follow
- (d) All I, II and III follow
- (e) Only I and II follow

Q56. Find the missing term: 18, 26, 34, ?, 50, 58

- (a) 49
- (b) 33
- (c) 42
- (d) 45
- (e) None of these

Q57. $425 \times 5 \div 15 + \sqrt{196} - 205 \div 5 \approx ?$ (find the approximate value)

- (a) 91.02
- (b) 114.67
- (c) 125.64
- (d) None of these
- (e) 97.60

Q58. $(7^3) - (8^2) + 14 \div 2 = ?$

- (a) None of these
- (b) 301.22
- (c) 305.11
- (d) 317.87
- (e) 286

Q59. Study the following sequence carefully and answer the question given below:

% J 6 M C N Q R @ 0 8 @ \$

How many times does a digit is immediately preceded by a letter and immediately followed by a symbol in the above sequence?

- (a) 4
- (b) 0
- (c) 1
- (d) None of these
- (e) 2

Q60. A shopkeeper bought an article for ₹1580 and sold it at a profit of 25%. Find the selling price.

- (a) 2081.65
- (b) None of these
- (c) 1975
- (d) 2144.54
- (e) 2105.38

Q61. Sonia walks 5 km towards North, then turns right and walks 6 km. He then turns right again and walks 5 km. In which direction is Sonia now with respect to his starting point?

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

Q62. In a certain code language, 'Gaurav works hard' is written as '6 9 8' and 'Divya works daily' is written as '1 9 3'. What is the code for 'works' in this language?

- (a) 1
- (b) 8
- (c) 6
- (d) 9
- (e) 3

Q63-Q67. Study the table below showing the number of employees (in hundreds) working in five companies A, B, C, D, E during the years 2016-2020 and answer the questions that follow.

Company A: 2016-850, 2017-260, 2018-770, 2019-370, 2020-260

Company B: 2016-210, 2017-710, 2018-640, 2019-480, 2020-300

Company C: 2016-700, 2017-340, 2018-430, 2019-300, 2020-490

Company D: 2016-360, 2017-420, 2018-580, 2019-580, 2020-720

Company E: 2016-200, 2017-550, 2018-410, 2019-490, 2020-740

Q63. What is the total number of employees (in hundreds) in Company E over all five years?

- (a) 2558
- (b) None of these
- (c) 2489
- (d) 2631
- (e) 2390

Q64. What is the difference between the number of employees in Company E and Company B in 2018?

- (a) 230
- (b) 215
- (c) 184
- (d) None of these
- (e) 243

Q65. Find the average number of employees (in hundreds) across all five companies in 2018.

- (a) 566
- (b) 589.34
- (c) 601.55
- (d) 473.75
- (e) None of these

Q66. What is the percentage change in the number of employees of Company E from 2018 to 2019?

- (a) 21.12
- (b) 13.28

- (c) 24.74
- (d) None of these
- (e) 19.51

Q67. What is the total number of employees (in hundreds) in Company D in 2018 and Company B in 2019 together?

- (a) 967
- (b) None of these
- (c) 978
- (d) 1187
- (e) 1060

Q68. Divya introduced Tarun as the son of the only brother of Divya's mother. How is Tarun related to Divya?

- (a) Cousin
- (b) Son
- (c) Brother
- (d) Uncle
- (e) Nephew

Q69. Who is the tallest among Ritu, Aman, Meena, Simran and Arjun?

I. Meena is taller than Ritu and Simran but shorter than Aman.

II. Arjun is the tallest of all five.

- (a) Neither statement I nor II is sufficient
- (b) Only statement I alone is sufficient
- (c) Either statement I or II alone is sufficient
- (d) Both statements I and II together are necessary
- (e) Only statement II alone is sufficient

Q70. $330 \times 8 \div 15 + \sqrt{144} - 190 \div 2 \approx ?$ (find the approximate value)

- (a) 99.89
- (b) 93
- (c) None of these
- (d) 103.92
- (e) 86.57

Q71. Priya introduced Vivek as the son of the only brother of Priya's mother. How is Vivek related to Priya?

- (a) Cousin
- (b) Son
- (c) Brother
- (d) Uncle
- (e) Nephew

Q72. $370 \times 8 \div 85 + \sqrt{169} - 55 \div 2 \approx ?$ (find the approximate value)

- (a) 20.32
- (b) None of these
- (c) 22.30
- (d) 17.56
- (e) 24.46

Q73. Statements: Some Books are Tables. No Tables is Windows. All Windows are Mirrors.
Conclusions: I. No Books is Windows. II. Some Books are not Windows. III. Some Mirrors are not Tables.

- (a) Only I and III follow
- (b) None of the conclusions follow
- (c) All I, II and III follow
- (d) Only I and II follow
- (e) Only II and III follow

Q74. $\sqrt{144} \times 24 - (8 \times 6) + 23 = ?$

- (a) 290.34
- (b) 278.37
- (c) None of these
- (d) 263
- (e) 237.32

Q75. $270 \times 7 \div 15 + \sqrt{169} - 185 \div 5 \approx ?$ (find the approximate value)

- (a) None of these
- (b) 119.53
- (c) 86.64
- (d) 83.02
- (e) 102

Q76. What is the code for 'sun' in a certain code language?

I. 'sun is bright' is written as 'V B E'.

II. 'star is bright' is written as 'N B E'.

- (a) Either statement I or II alone is sufficient
- (b) Only statement I alone is sufficient
- (c) Both statements I and II together are necessary
- (d) Neither statement I nor II is sufficient
- (e) Only statement II alone is sufficient

Q77. What is the area of a rectangle?

I. The length of the rectangle is 16 cm.

II. The perimeter of the rectangle is 42 cm.

- (a) Neither statement I nor II is sufficient
- (b) Either statement I or II alone is sufficient
- (c) Both statements I and II together are necessary
- (d) Only statement I alone is sufficient
- (e) Only statement II alone is sufficient

Q78. Deepak walks 15 km towards North, then turns right and walks 9 km. He then turns right again and walks 15 km. In which direction is Deepak now with respect to his starting point?

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

Q79. Statements: No Cups is Bottles. Some Bottles are Windows. All Windows are Tables.
Conclusions: I. Some Windows are not Cups. II. Some Tables are Bottles. III. No Cups is Tables.

- (a) None of the conclusions follow
- (b) Only I and II follow
- (c) Only I and III follow
- (d) All I, II and III follow

(e) Only II and III follow

Q80. The speed of a boat in still water is 13 km/hr and the speed of the current is 5 km/hr. Find the time taken to cover 48 km downstream (in hours).

- (a) 2.85
- (b) 2.67
- (c) 3.02
- (d) 2.51
- (e) None of these

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