

IBPS RRB PO 2021 Prelims Memory Based Paper PDF

Q1. The speed of a boat in still water is 15 km/hr and the speed of the current is 5 km/hr. Find the time taken to cover 24 km downstream (in hours).

- (a) None of these
- (b) 1.34
- (c) 1.11
- (d) 1.20
- (e) 1.32

Q2. $445 \times 8 \div 45 + \sqrt{256} - 70 \div 5 \approx ?$ (find the approximate value)

- (a) 81.11
- (b) 72.73
- (c) 68.14
- (d) None of these
- (e) 93.33

Q3-Q7. 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: 2016-680, 2017-330, 2018-450, 2019-680, 2020-210

Company B: 2016-550, 2017-500, 2018-510, 2019-810, 2020-240

Company C: 2016-630, 2017-320, 2018-860, 2019-870, 2020-480

Company D: 2016-550, 2017-480, 2018-460, 2019-330, 2020-680

Company E: 2016-590, 2017-770, 2018-790, 2019-490, 2020-270

Q3. What is the total number of employees (in hundreds) in Company C over all five years?

- (a) 3388
- (b) 3271
- (c) 3160
- (d) None of these
- (e) 2901

Q4. What is the difference between the number of employees in Company C and Company B in 2018?

- (a) 317
- (b) None of these
- (c) 404
- (d) 307
- (e) 350

Q5. Find the average number of employees (in hundreds) across all five companies in 2018.

- (a) 529.85
- (b) None of these
- (c) 645.96
- (d) 510.47
- (e) 614

Q6. What is the percentage change in the number of employees of Company C from 2018 to 2017?

- (a) -76.36
- (b) -62.79

- (c) -68.19
- (d) -75.76
- (e) None of these

Q7. What is the total number of employees (in hundreds) in Company A in 2018 and Company B in 2017 together?

- (a) None of these
- (b) 1108
- (c) 1102
- (d) 950
- (e) 1057

Q8. Statement: $B > C < G = A$

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

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

Q9. Pipe A can fill a tank in 14 hours and Pipe B can fill the same tank in 13 hours. If both pipes are opened together, find the time taken to fill the tank (in hours).

- (a) 5.94
- (b) 6.28
- (c) 7.30
- (d) 6.74
- (e) None of these

Q10. In a certain code language, 'Pooja works hard' is written as '8 2 6' and 'Vikas works daily' is written as '1 2 9'. What is the code for 'works' in this language?

- (a) 2
- (b) 6
- (c) 9
- (d) 8
- (e) 1

Q11. Who is the tallest among Anita, Rahul, Pooja, Vivek and Aman?

I. Pooja is taller than Anita and Vivek but shorter than Rahul.

II. Aman is the tallest of all five.

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

Q12. Statements: No Pens is Lamps. Some Lamps are Mirrors. All Mirrors are Windows.

Conclusions: I. Some Mirrors are not Pens. II. Some Windows are Lamps. III. No Pens is Windows.

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

Q13-Q17. The pie chart below shows the percentage distribution of 2600 students enrolled across six streams A, B, C, D, E, F. Study it and answer the questions that follow.

A: 17%, B: 20%, C: 25%, D: 11%, E: 13%, F: 14%

Q13. How many students are enrolled in stream E?

- (a) 353
- (b) None of these
- (c) 338
- (d) 367
- (e) 352

Q14. What is the difference between the number of students in stream F and stream D?

- (a) 66
- (b) 65
- (c) 78
- (d) 86
- (e) None of these

Q15. What is the central angle (in degrees) representing stream E in the pie chart?

- (a) 44.77
- (b) 46.80
- (c) 50.64
- (d) 43.01
- (e) None of these

Q16. What is the ratio of the number of students in stream D to stream A?

- (a) 11:17
- (b) 5:9
- (c) None of these
- (d) 1:2
- (e) 12:17

Q17. How many students are NOT enrolled in stream F?

- (a) 2384
- (b) None of these
- (c) 2138
- (d) 2236
- (e) 2127

Q18. $[(49 \times 8) \div 9 - 4] \times 7 \div 17 + (8 - 9) = ?$

- (a) 16.50
- (b) 15.29
- (c) 14.29
- (d) None of these
- (e) 13.49

Q19. What is the code for 'storm' in a certain code language?

I. 'storm is bright' is written as 'L M N'.

II. 'sun is bright' is written as 'R M N'.

- (a) Only statement I alone is sufficient
- (b) Only statement II alone is sufficient
- (c) Neither statement I nor II is sufficient
- (d) Either statement I or II alone is sufficient

(e) Both statements I and II together are necessary

Q20. Find the missing term: 8, 13, 22, 27, ?, 41

- (a) 36
- (b) 42
- (c) 32
- (d) 39
- (e) None of these

Q21. Simran walks 6 km towards North, then turns right and walks 11 km. He then turns right again and walks 6 km. In which direction is Simran now with respect to his starting point?

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

Q22. In a certain code language, 'Vivek works hard' is written as '7 6 9' and 'Pooja works daily' is written as '4 6 1'. What is the code for 'works' in this language?

- (a) 4
- (b) 1
- (c) 9
- (d) 7
- (e) 6

Q23. Statement: $F < B = H > E$

Conclusions: I. $F = H$ II. $B = E$

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

Q24. Study the following sequence carefully and answer the question given below:

Z B 4 0 H L & 6 3 6 6 6 4

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

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

Q25. The speed of a boat in still water is 14 km/hr and the speed of the current is 5 km/hr. Find the time taken to cover 24 km downstream (in hours).

- (a) 1.26
- (b) 1.08
- (c) 1.39
- (d) None of these
- (e) 1.42

Q26-Q30. Six persons Divya, Naveen, Priya, Rahul, Simran, Tarun sit around a circular table facing the centre, not necessarily in the same order. Divya sits second to the right of

Simran. Naveen sits third to the left of Simran. Rahul sits immediate right of Naveen. Priya sits between Divya and Tarun.

Q26. Who sits second to the right of Simran?

- (a) Simran
- (b) Divya
- (c) Tarun
- (d) Priya
- (e) Naveen

Q27. Who sits immediate right of Naveen?

- (a) Priya
- (b) Rahul
- (c) Naveen
- (d) Simran
- (e) Divya

Q28. Who sits between Divya and Tarun?

- (a) Divya
- (b) Rahul
- (c) Simran
- (d) Naveen
- (e) Priya

Q29. Who sits third to the left of Simran?

- (a) Tarun
- (b) Rahul
- (c) Priya
- (d) Divya
- (e) Naveen

Q30. How many persons are seated around the table?

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

Q31-Q35. Seven persons Kiran, Manoj, Meena, Naveen, Simran, Sonia, Vikas 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. Simran lives on the lowest floor. Naveen lives on the topmost floor. Kiran lives exactly in the middle floor. Meena lives immediately above Simran. Vikas lives immediately above Meena. Sonia lives immediately below Naveen. Manoj lives exactly between Kiran and Sonia.

Q31. Who lives on the 3rd floor?

- (a) Naveen
- (b) Vikas
- (c) Meena
- (d) Sonia
- (e) Manoj

Q32. How many persons live above the floor of Kiran?

- (a) 2
- (b) 1

- (c) 3
- (d) 4
- (e) 5

Q33. Who lives immediately below Kiran?

- (a) Sonia
- (b) Meena
- (c) Simran
- (d) Kiran
- (e) Vikas

Q34. Who lives on the topmost floor?

- (a) Kiran
- (b) Naveen
- (c) Simran
- (d) Manoj
- (e) Meena

Q35. Who lives exactly between the floors of Kiran and Sonia?

- (a) Naveen
- (b) Sonia
- (c) Manoj
- (d) Meena
- (e) Simran

Q36. Statements: No Mirrors is Cups. Some Cups are Doors. All Doors are Tables.
Conclusions: I. Some Doors are not Mirrors. II. Some Tables are Cups. III. No Mirrors is Tables.

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

Q37. Statements: No Lamps is Mirrors. Some Mirrors are Doors. All Doors are Books.
Conclusions: I. Some Doors are not Lamps. II. Some Books are Mirrors. III. No Lamps is Books.

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

Q38. I. $x^2 - 6x - 27 = 0$ II. $y^2 + 3y - 18 = 0$. On solving both equations, find the relation between x and y.

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

Q39. What is the area of a rectangle?

- I. The length of the rectangle is 8 cm.
- II. The perimeter of the rectangle is 30 cm.

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

Q40. Priya introduced Arjun as the son of the only brother of Priya's mother. How is Arjun related to Priya?

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

Q41. I. $x^2 - 12x + 11 = 0$ II. $y^2 + y - 2 = 0$. On solving both equations, find the relation between x and y .

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

Q42. Find the compound interest on ₹29500 at 8% per annum for 2 years, compounded annually.

- (a) 4332.66
- (b) None of these
- (c) 4908.80
- (d) 4337.05
- (e) 4408.46

Q43. $240 \times 8 \div 55 + \sqrt{256} - 155 \div 2 \approx ?$ (find the approximate value)

- (a) -24.60
- (b) -24.24
- (c) -23.88
- (d) -26.59
- (e) None of these

Q44. Manoj walks 15 km towards North, then turns right and walks 11 km. He then turns right again and walks 15 km. In which direction is Manoj now with respect to his starting point?

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

Q45-Q49. Seven persons Anita, Kavita, Manoj, Naveen, Nisha, Rahul, Rajesh sit in a row facing north, not necessarily in the same order. Naveen sits at the extreme left end. Rajesh sits at the extreme right end. Kavita sits exactly in the middle of the row. Manoj sits second from the left end. Rahul sits to the immediate right of Manoj. Nisha sits second from the right end. Anita sits between Kavita and Nisha.

Q45. Who sits third from the left end?

- (a) Manoj

- (b) Nisha
- (c) Rajesh
- (d) Naveen
- (e) Rahul

Q46. How many persons sit to the right of Kavita?

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

Q47. Who sits immediate left of Kavita?

- (a) Anita
- (b) Manoj
- (c) Nisha
- (d) Rahul
- (e) Naveen

Q48. Which of the following sits at the extreme right end of the row?

- (a) Kavita
- (b) Rajesh
- (c) Nisha
- (d) Anita
- (e) Rahul

Q49. Who sits exactly between Kavita and Nisha?

- (a) Nisha
- (b) Rajesh
- (c) Anita
- (d) Manoj
- (e) Kavita

Q50. I. $x^2 + 5x - 50 = 0$ II. $y^2 + 5y - 50 = 0$. On solving both equations, find the relation between x and y.

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

Q51. What is the code for 'star' in a certain code language?

I. 'star is bright' is written as 'Q L E'.

II. 'storm is bright' is written as 'J L E'.

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

Q52. Find the missing term: 9, 13, 23, 27, 37, ?

- (a) 41
- (b) 46
- (c) None of these

- (d) 47
- (e) 48

Q53. Is the number x an even number?

I. x is completely divisible by 8.

II. x is completely divisible by 18.

- (a) Neither statement I nor II 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) Either statement I or II alone is sufficient

Q54. Sonia walks 10 km towards North, then turns right and walks 5 km. He then turns right again and walks 10 km. In which direction is Sonia now with respect to his starting point?

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

Q55. Find the missing term: 14, 22, ?, 44, 58, 74

- (a) 39
- (b) 37
- (c) 36
- (d) None of these
- (e) 32

Q56. In a class of 40 students, Ashok ranks 25th from the top. What is Ashok's rank from the bottom?

- (a) 13
- (b) 19
- (c) 16
- (d) None of these
- (e) 14

Q57. $52 \times (4/8) + (6/7) \times 13 = ?$

- (a) 34.36
- (b) 33.47
- (c) 37.14
- (d) 41.44
- (e) None of these

Q58. What is the area of a rectangle?

I. The length of the rectangle is 18 cm.

II. The perimeter of the rectangle is 54 cm.

- (a) Either statement I or II alone is sufficient
- (b) Neither statement I nor II 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

Q59. In a certain code language, 'Rajesh works hard' is written as '7 5 6' and 'Tarun works daily' is written as '1 5 8'. What is the code for 'works' in this language?

- (a) 6
- (b) 8
- (c) 1
- (d) 5
- (e) 7

Q60. In a class of 28 students, Divya ranks 5th from the top. What is Divya's rank from the bottom?

- (a) 27
- (b) 24
- (c) 19
- (d) 26
- (e) None of these

Q61. I. $x^2 + 2x - 120 = 0$ II. $y^2 + 13y + 22 = 0$. On solving both equations, find the relation between x and y.

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

Q62. Statement: $G = D = B = A$

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

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

Q63. Vikas said, "Suresh's mother is the only daughter of my mother." How is Vikas related to Suresh?

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

Q64. Study the following sequence carefully and answer the question given below:

A & Q \$ 5 Z A B P 4 P Y E

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

- (a) 1
- (b) None of these
- (c) 0
- (d) 5
- (e) 2

Q65. I. $x^2 + 14x + 48 = 0$ II. $y^2 + 14y + 48 = 0$. On solving both equations, find the relation between x and y.

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

(e) $x < y$

Q66-Q70. 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-65, Feb-260, Mar-275, Apr-250, May-120, Jun-120

Product Q: Jan-285, Feb-250, Mar-280, Apr-235, May-200, Jun-230

Q66. What is the total number of units (in tens) of products P and Q sold together in May?

- (a) None of these
- (b) 357
- (c) 320
- (d) 278
- (e) 310

Q67. What is the difference in units sold between Product P and Product Q in Apr?

- (a) 15
- (b) 16
- (c) 17
- (d) 19
- (e) None of these

Q68. Find the average monthly sale (in tens) of Product P over the six months.

- (a) 167.15
- (b) 165.05
- (c) 196.79
- (d) 181.67
- (e) None of these

Q69. What is the total number of units (in tens) of Product Q sold over all six months?

- (a) 1480
- (b) 1575
- (c) 1365
- (d) 1605
- (e) None of these

Q70. What is the ratio of units sold of Product P to Product Q in Jan?

- (a) 5:29
- (b) 16:57
- (c) 11:56
- (d) None of these
- (e) 13:57

Q71. Find the missing term: 14, 28, 56, 112, ?, 448

- (a) 204
- (b) 264
- (c) 175
- (d) 224
- (e) None of these

Q72. $330 \times 6 \div 55 + \sqrt{256} - 90 \div 5 \approx ?$ (find the approximate value)

- (a) 34
- (b) None of these
- (c) 40.83
- (d) 38.69

(e) 31.31

Q73. Is the number x an even number?

I. x is completely divisible by 16.

II. x is completely divisible by 20.

- (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

Q74. $[(27 \times 11) \div 6 - 3] \times 7 \div 8 + (11 - 6) = ?$

- (a) 45.69
- (b) None of these
- (c) 40.04
- (d) 51.63
- (e) 49.67

Q75. Deepak introduced Vivek as the son of the only brother of Deepak's mother. How is Vivek related to Deepak?

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

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

I. 'star is bright' is written as 'U W P'.

II. 'storm is bright' is written as 'Q W P'.

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

Q77. $\sqrt{4} \times 27 - (11 \times 2) + 27 = ?$

- (a) 53.04
- (b) 60.78
- (c) 59
- (d) 63.56
- (e) None of these

Q78. $265 \times 6 \div 40 + \sqrt{225} - 70 \div 5 \approx ?$ (find the approximate value)

- (a) 40.75
- (b) 44.29
- (c) 37.09
- (d) 49.02
- (e) None of these

Q79. In a class of 24 students, Aman ranks 7th from the top. What is Aman's rank from the bottom?

- (a) 18
- (b) 17
- (c) None of these

(d) 15

(e) 21

Q80. Study the following sequence carefully and answer the question given below:

J \$ * U 6 1 8 @ 7 7 C 3 9

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) 2

(d) 3

(e) 0

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