

IBPS RRB

Office Assistant Prelims

Memory Based Questions PDF

17th August, 2019

QUANT

1. A is 6 year younger than B. The ratio between B's present age and C's present age is 12 : 5 respectively. If A's present age is twice C's present age, what is B's present age (in years)?

- A. 30 B. 36
C. 42 D. 15
E. 24

Answer: B

2. The circumference of circle (A) is 110 cm and that of circle (B) is 132 cm, what is the difference between the radii of the two circles (in cm)?

- A. 7 B. 3.5
C. 17.5 D. 14
E. 2.1

Answer: B

3. Inlets A and B can fill an empty tank in 36 hours and 60 hours respectively. In how much time will they together fill $\frac{1}{6}$ th of the tank?

- A. $3\frac{1}{2}$ B. $3\frac{3}{4}$
C. $3\frac{1}{4}$ D. $3\frac{1}{5}$

E. 3

Answer: B

Directions (4-15): What should come in place of the question mark (?) in the following questions?

4. $(? - 0.5) \div 0.2 = 120 \div 2$

- A. 16.5
B. 10.5
C. 12.5
D. 8.5
E. 14.5

Answer: C

5. $80\% \text{ of } (1.5 \times 4 + ?) = 24$

- A. 27 B. 24
C. 34 D. 25
E. 14

Answer: B

6. $60\% \text{ of } ? - \sqrt{324} = 222$

- A. 500 B. 600
C. 200 D. 400
E. 300

Answer: D

7. $\left(2\frac{1}{4} + 4\right) \times 8 = ? \times 10$

- A. 15 B. 4
C. 10 D. 5
E. 3

Answer: D

8. $2^3 \times 3^2 \div (90 \div ?) = \sqrt{64}$

- A. 5 B. 3
C. 10 D. 9
E. 30

Answer: C

9. $22.5 \div 2.5 \times 8 - 12 = ?$

- A. 72 B. 40
C. 120 D. 48
E. 60

Answer: E

10. $18 \times ? = 15 \times 2 \times 3$

- A. 9 B. 5
C. 15 D. 6
E. 3

Answer: B

11. $36 + 25 \div 0.5 = ? \times 43$

- A. 1.5
B. 1
C. 3
D. 2.5
E. 2

Answer: E

12. $\sqrt{? \times 4} = \frac{1}{4}$ of 8^2

- A. 8 B. 64
C. 32 D. 24
E. 16

Answer: B

13. $16\frac{1}{2} - 2\frac{1}{2} + 4^3 = ?$

- A. 76 B. 78
C. 72 D. 66
E. 74

Answer: B

14. $221 \times 3 = ?^2 - \sqrt{169}$

- A. 44 B. 36
C. 34 D. 26
E. 24

Answer: D

15. $12 \times ? + 225 = 105 \times 5$

- A. 45
B. 15
C. 25
D. 50
E. 35

Answer: C

Directions (16 – 20): Study the table carefully and solve the following questions.

In the table, number of phones serviced by four different service centres-A, B, C and D in 4 months-May, June, July and August is given.

Months	Service Centre			
	A	B	C	D
May	120	137	143	135
June	116	134	102	158
July	129	143	65	153
August	145	128	118	146

16. If centre C charges Rs. 2000 as servicing fee of each phone, what was the amount collected by centre C in July (in lakhs)?

- A. 6.5 B. 3.9
C. 1.3 D. 2.6
E. 1.2

Answer: C

17. Out of the number of phones serviced by service centre D in June and July, 64 and 68 respectively were of brand X. What is the difference between the number of phones serviced by service centre D of brands other than brand X in June and July?

- A. 17 B. 11
C. 9 D. 8
E. 3

Answer: C

18. Out of the total number of phones serviced by centre B and C together in May, 25% were done for female customers, what is the total number of phones serviced by centre B & C together in May for male customers?

- A. 195 B. 240
C. 210 D. 180
E. 225

Answer: C

19. What is the total number of phones serviced by centre B in June, July and August together?

- A. 425 B. 385
C. 415 D. 405
E. 335

20. What is the respective ratio between the number of phones serviced by centre A in June and that in August?

- A. 4 : 5 B. 2 : 7
C. 5 : 7 D. 2 : 5
E. 3 : 7

Directions (21-26): Two equations I and II are given below in each question. You have to solve these equations and give answer

21. $x^2 - 17x + 72 = 0$
 $y^2 - 17y + 70 = 0$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$
 E. if $x = y$ or no relation can be established

22. $x^2 - x - 42 = 0$
 $y^2 + y - 30 = 0$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$
 E. if $x = y$ or no relation can be established

23. $x^2 + 14x + 48 = 0$
 $y^2 + 16y + 63 = 0$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$
 E. if $x = y$ or no relation can be established

24. $2x^2 - 7x + 3 = 0$
 $y^2 - 7y + 12 = 0$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$
 E. if $x = y$ or no relation can be established

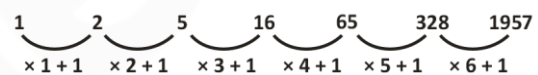
25. $x^2 - 9x + 20 = 0$
 $y^2 - 15y + 54 = 0$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$

- E. if $x = y$ or no relation can be established

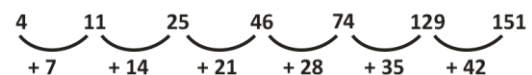
26. $x^2 - 3x = 10$
 $y^2 + 7y = -10$
 A. if $x < y$
 B. if $x > y$
 C. if $x \leq y$
 D. if $x \geq y$
 E. if $x = y$ or no relation can be established

Directions (27-34): Find the wrong term which does not follow the pattern that other numbers follow in the following number series:

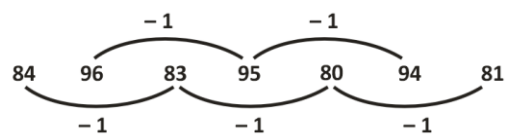
27. 1 2 5 16 65 328
 1957
 A. 65 B. 16
 C. 5 D. 2
 E. 328
 Sol.



28. 4 11 25 46 74 129
 151
 A. 74 B. 25
 C. 129 D. 11
 E. 46
 Sol.



29. 84 96 83 95 80 94 94
 81
 A. 96
 B. 94
 C. 95
 D. 83
 E. 80
 Sol.




30. 3, 5, 8, 17, 33, 58, 94

- A. 39
- B. 17
- C. 58
- D. 5
- E. 8

Sol.

$$\begin{array}{cccccc}
 3 & 5 & 8 & 17 & 33 & 58 & 94 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +1^2 & +2^2 & +3^2 & +4^2 & +5^2 & +6^2 &
 \end{array}$$

31. 2, 4, 11, 38, 102, 227, 443

- A. 2
- B. 4
- C. 11
- D. 38
- E. 227

Answer: B

32. 5, 4, 7, 20, 79, 396, 2363

- A. 4
- B. 7
- C. 79
- D. 396
- E. 2363

Answer: D

33. 2.1, 1.5, 2.7, 0.9, 3.5, 0.3, 3.9

- A. 2.1
- B. 1.5
- C. 2.7
- D. 3.5
- E. 0.3

Answer: D

34. 4, 7, 11, 17, 26, 41, 57

- A. 7
- B. 11
- C. 26
- D. 41
- E. 57

Answer: D

$$2\pi r = 110$$

$$2\pi R = 132$$

$$R - r = 3.5 \text{ cm}$$

35. The ratio of the salary of a male and a female is 6 : 5. Salary of the male increases by 20% and the salary of the female increases by 4%. If the salary of the male becomes Rs. 216, then salary of the female will become?

36. Sum of the price of x pens and (x - 2) pencils is Rs. 328. If price of a pen is Rs. 20 and the price of a pencil is Rs. 4, then what will be the price of (x - 3) pens and x pencils?

37. The discount offered on a product is 20% and the profit earned on that product is 27%. If the marked price of that product is Rs. 637.50, then what is the cost price of that product?

38. A boat covers 36 km upstream in 2 hours and 66 km downstream in 3 hours. What is the speed of the boat in still water?

39. The marked price of a product is Rs. 250 more than the cost price. If 15% discount offered on the marked price and the profit percent on that product is 27.5%, then find the cost price of the product.

40. A train is going in the north direction at a speed of 18 m/s from a point while another train is going in the south direction at a speed of 12 m/s from the same point at the same time. In how much time the distance between both the trains be 367.2 km?

REASONING

1. In a certain code language, 'he will say' is coded as '1 3 9', 'say to him' is coded as '3 5 2' and 'he may do' is coded as '8 7 9'. Then, what is the definite code for 'will'?

- A. 9
- B. 7
- C. 1
- D. 5
- E. None of These

2. Four of the following five are alike in a certain way as per the English alphabetical order and thus form a group. Which of the following does not belong to the given group?

- A. HKJI
- B. PSRQ
- C. ADCB
- D. MONL
- E. VYXW

Direction (3-6). Study the following information and answer the question. A certain number of people are sitting in a straight line facing north with equal distance between adjacent persons. B sits fifth to the left of E. Only two people sit between B and D. D sits second from one of the extreme ends of the line. Only five people sit between D and F. S sits eight to the right of F. As many people sit between E and S as between C and S. Only two people sit to the right of C.

3. How many people are sitting in the linear arrangement?

- A. 22
- B. 24
- C. 20
- D. 26
- E. None of These

4. If G sits second to the right of S, then what is the position of G from the right end?

- A. 6
- B. 7
- C. 8
- D. 9
- E. None of These

5. What is the position of F with respect to E?

- A. Immediate left
- B. Immediate right
- C. 2nd to the left
- D. 2nd to the right
- E. None of These

6. How many people are sitting between B and F?

- A. No One
- B. 1
- C. 2
- D. 3
- E. None of These

Direction (7-11). Study the following information and answer the question.

Seven people are sitting around a circular table facing the centre with equal distance between adjacent persons. P sits to the immediate right of Q. Only one person sits between P and S (either from the left or the right side). U sits third to the right of S. T is an immediate neighbour of U. R sits second to the left of V.

7. Four of the following five are alike in a certain way and form a group.

Which one does not belong to that group?

- A. PV
- B. VQ
- C. UR
- D. TP
- E. ST



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8. How many people sit between U and Q when counted from the right of U?

- A. Two
- B. One
- C. None
- D. More than three
- E. Three

9. If all the people are made to sit as per the English alphabetical order in an anticlockwise direction starting from P, then the position of how many will remain unchanged (excluding P)?

- A. Three
- B. More than three
- C. None
- D. One
- E. Two

10. Who sits second to the left of R?

- A. Q
- B. T
- C. P
- D. S
- E. U

11. As many people sit between T and V when counted from the left of T as between R and _____ when counted from the left of R.

- A. S
- B. U
- C. Q
- D. T
- E. P

Direction (12-14): In each of the questions below are given few statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read both the conclusions and then decide which of the given conclusions logically follow from the given statements disregarding commonly known facts.

12. Statement:

Only a few lamps are bottles.
No bottle is ship.

Conclusion:

- (I) Some ships are definitely not lamps.
- (II) All lamps can never be ships.
- A. If conclusion I follows
- B. If conclusion II follows
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

13. Statement:

Only a few wells are mats.
All pillows are mats.

Conclusion:

- (I) Atleast some pillows are wells.
- (II) All wells can never be pillow.
- A. If conclusion I follows
- B. If conclusion II follows
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

14. Statement:

All bamboos are sticks.
No bamboo is a dish.

Conclusion:

- (I) No stick is a dish.
- (II) Some sticks are dishes.
- A. If conclusion I follows
- B. If conclusion II follows
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

Direction (15-18): In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

15. Statement:

$$P \geq E \geq Z; R \leq E$$

Conclusion:

(I) $R = P$

(II) $P > R$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

16. Statement:

$$S < V > A > T > Y$$

Conclusion:

(I) $Y < V$

(II) $A > S$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

17. Statement:

$$K \leq Q < F \geq N; R \geq F$$

Conclusion:

(I) $N < K$

(II) $R > Q$

- A. Only conclusion I is true
- B. Only conclusion II is true
- C. Either conclusion I or conclusion II is true
- D. Neither conclusion I nor conclusion II is true
- E. Both conclusion I and II are true

18. Statement:

$$E \geq B = J \geq K > D$$

Conclusion:

(I) $K \leq E$

(II) $D > B$

- A. Only conclusion I is true
- B. Only conclusion II is true

C. Either conclusion I or conclusion II is true

D. Neither conclusion I nor conclusion II is true

E. Both conclusion I and II are true

Direction (19). How many such pairs of letters are there in the word 'MINUTE' each of which has as many letters between them in the word as in the English alphabet (both forward and backward)?

- A. Two
- B. Three
- C. One
- D. More than three
- E. None

Direction (20): Study the following information and answer the question. Seven people A, B, C, D, E, F and G live in a 7 floor building where topmost floor is numbered 7 and the bottommost floor is numbered 1. Two people are living between B and C. B lives just above A. Not more than three person are living above A. D is living on an even numbered floor and lives immediately above G. F is not living on floor number 5. F is living above E.

Direction (21): Study the following information and answer the question. 10 people are sitting opposite to each other in two parallel rows (not necessarily in the same order). M, N, O, P and Q are facing towards north and A, B, C, D and E are facing towards south. Two people sit between M and P. M sits at one of the extreme ends. Immediate neighbour of P faces B. Two people sit between B and D. A and C are immediate neighbours of each other. C does not sit opposite to P. E sits third to the left of A. Q sits second to the right of N.



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