BYJU'S EXAM PREP

IBPS RRB Clerk Prelims 2022

Memory Based Questions

7th August

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Direction (1-5): Study the following information carefully and answer the following question.

Six people i.e., A, B, C, D, E and F attend the meeting on the 11th and 22th of three different months i.e., September, October and November. All the information is not necessarily in the same order. B attends the meeting om odd numbered date. Three people attend the meeting between B and E. Number of people attend the meeting before E is same as after C. Only One person attends the meeting between C and A. D attends the meeting before F but not on even numberd date.

1. How many people attend the meeting before F?

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

Ans. D

SOl:

Date and Month	People
11 September	B
22 September	C
11 October	D
22 October	A
11 November	E
22 November	F

2. Who attends the meeting on 11th October?

A. D
B. C
C. A
D. E
E. None of these

Ans. A

SOl:

Date and Month	People
11 September	B
22 September	C
11 October	D
22 October	A
11 November	E
22 November	F

3. How many people attend the meeting between C and D?

A. One
B. Three
C. Four
D. None
E. Two

Ans. D

SOl:

Date and Month	People
11 September	B
22 September	C
11 October	D
22 October	A
11 November	E
22 November	F

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

A. B
B. C
C. A
D. E
E. F

Ans. C

SOI:

Date and Month	People
11 September	B
22 September	C
11 October	D
22 October	A
11 November	E
22 November	F

5. Which of the following statements is correct?

I. E attends the meeting after F.
II. C attends the meeting on 22nd September.
III. Three people attends the meeting between E and A.

A. Only III
B. Both I and III
C. Both II and III
D. Only II
E. All I, II and III

Ans. D

SOI:

Date and Month	People
11 September	B
22 September	C
11 October	D
22 October	A
11 November	E
22 November	F

Direction (06-10): Study the following information carefully and answer the following questions.

Seven people are sitting in a circular table with equal distance to each other. All of them face towards the centre of the table. Two people sit between N and O. M sits second to the left of O. M

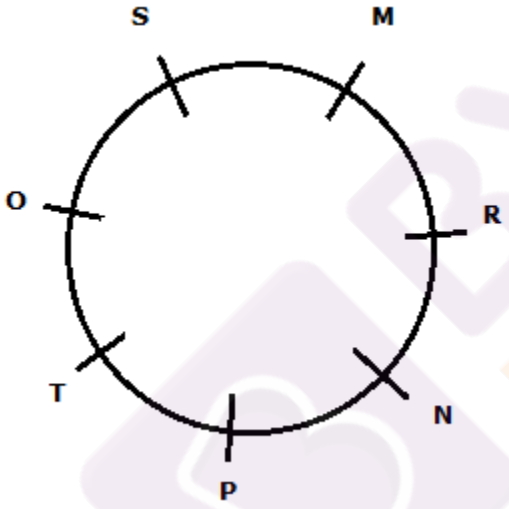
sits third to the right of P. Only one person sits between P and R. S sits second to the left of T.

6. How many people sit between P and O when counted from right of O?

A. One
B. Three
C. Two
D. None
E. Four

Ans. A

SOl:

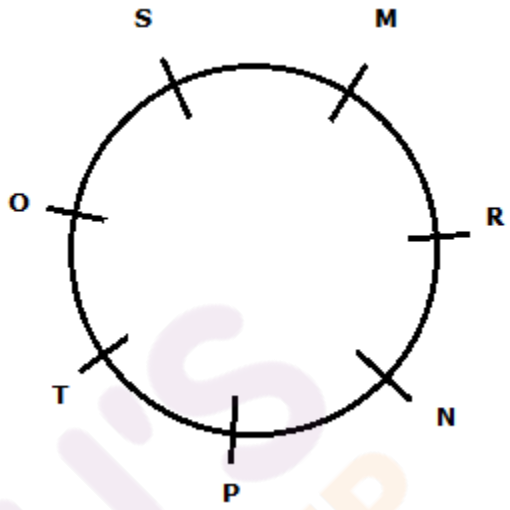


7. Who sits third to the right of T?

A. O
B. R
C. M
D. P
E. None of these

Ans. B

SOl:

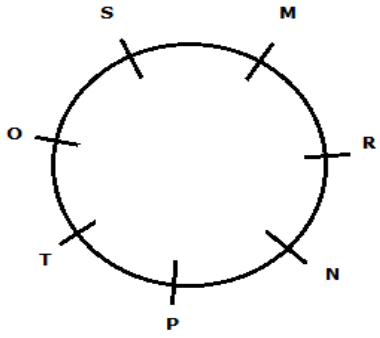


8. Number of people sit between M and O when counted from right of M is same as number of people sit between T and __ when counted from right of T?

A. S
B. R
C. P
D. N
E. None of these

Ans. D

SOl:

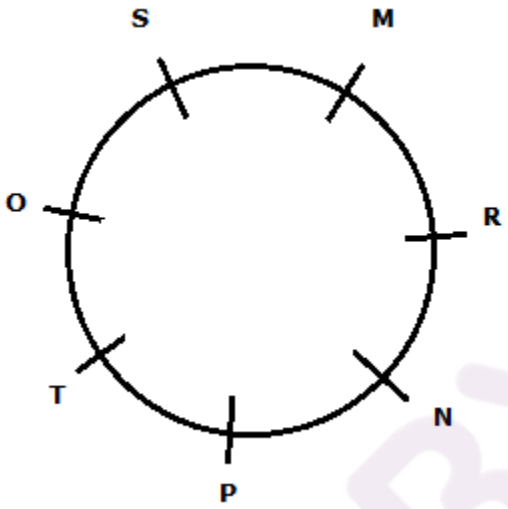


9. What is the position of R with respect to O?

A. Second to the right
B. Third to the left
C. Immediate right
D. Immediate left
E. None of these

Ans. B

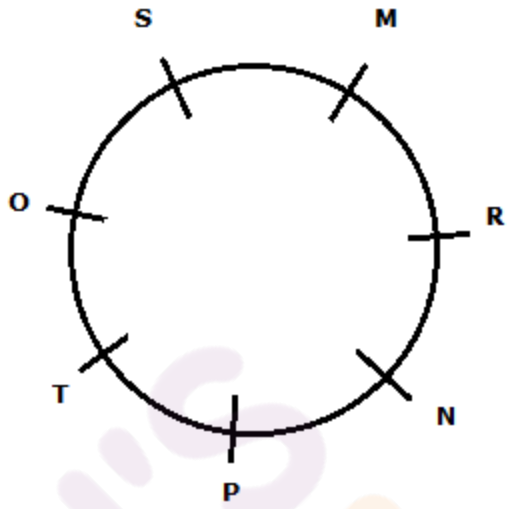
SOl:



10. Which amongst the following pairs sit together?
A. P and O
B. N and M
C. S and R
D. O and T
E. T and M

Ans. D

SOl:



Direction(16-20): In the following question assuming the given statements to be true, find which of the conclusion(s) is/are is definitely true and then give your answers accordingly.

11. **Statement:**
A > V ≥ G; S = C > E ≥ H; G = F ≤ S
Conclusion:
I. G ≤ C
II. A > S

A. Only I follows
B. Only II follows
C. Both I and II follows
D. Either I or II follows
E. Neither I nor II follows

Ans. A

SOl:

Conclusion:

I. G ≤ C - follows as, G = F ≤ S = C

II. A > S - does not follow as A > V ≥ G = F ≤ S

12.

Statement:

M ≥ N ≥ B; J < U ≤ Y = T; B = G > H = J

Conclusion:

I. Y > M

II. H < T

A. Only I follows

B. Only II follows

C. Both I and II follows

D. Either I or II follows

E. Neither I nor II follows

ANs. B

SOl:

Conclusion:

I. Y > M - It does not follow as J < U ≤ Y; B = G > H = J; M ≥ N ≥ B

II. H < T - It follows as H = J < U ≤ Y = T

13.

Statement:

Q = W > E; B > O ≥ J ≤ M; E < T ≥ G = B

Conclusion:

I. B > Q

II. W ≥ J

A. Only I follows

B. Only II follows

C. Both I and II follows

D. Either I or II follows

E. Neither I nor II follows

ANs. E

SOl:

Conclusion:

I. B > Q - does not follow as E < T ≥ G = B; Q = W > E

II. W ≥ J - does not follow as W > E; E < T ≥ G = B; B > O ≥ J

14.

Statement:

Q = S < X; T = Y ≥ J = M > O; X < C ≤ F ≥ T

Conclusion:

I. X < T

II. F > Q

A. Only I follows

B. Only II follows

C. Both I and II follows

D. Either I or II follows

E. Neither I nor II follows

ANs. B

SOl:

Conclusion:

I. X < T - does not follow as X < C ≤ F ≥ T

II. F > Q - It follows as X < C ≤ F; Q = S < X

15. **Statement:**
I > J = N; T = R > D > X; N < B ≤ G ≤ T
Conclusion:
I. T > J
II. I > N

A. Only I follows
B. Only II follows
C. Both I and II follows
D. Either I or II follows
E. Neither I nor II follows

Ans. C

SOl:
Conclusion:
I. T > J - follows as J = N < B ≤ G ≤ T
II. I > N - follow as I > J = N

Direction (1-4): What should come in place of the question mark (?) in the following number series?

1. 0.5, 0.5, 1, 3, 12, ?
A. 24
B. 36
C. 48
D. 60
E. 72
Ans. D
Sol.
The pattern of the series is:
0.5 × 1 = 0.5
0.5 × 2 =1
1 × 3 = 3
3 × 4 = 12
12 × 5 = 60
Hence, the missing number is 60.

2. 15, 20, ?, 30, 35, 40
A. 21
B. 24
C. 25
D. 18
E. 28
Ans. C
Sol.
The pattern of the series is:
15 +5 = 20
20 + 5 = 25
25 + 5 = 30
30 + 5 = 35
35 +5 = 40
Hence, the missing number is 25.

3. 2, 4, 7, 12, 19, ?
A. 27
B. 25
C. 30
D. 32
E. 38
Ans. C
Sol.
The pattern of the series is:
Here the difference between the numbers are prime numbers.
2, + 2 = 4
4 + 3 = 7
7 + 5 = 12
12 + 7 = 19
19 + 11 = 30
Hence, the missing number is 30.

4. 10, 18, 45, 109, 234, ?
A. 300
B. 450
C. 375
D. 480
E. 420
Ans. B
Sol.
The pattern of the series is:
$10 + 2^3 = 18$
$18 + 3^3 = 45$
$45 + 4^3 = 109$
$109 + 5^3 = 234$
$234 + 6^3 = 450$
Hence, the missing number is 450.

Direction (5-9): What should come in place of the question mark '?' in the following question?

5. $\sqrt{144} + \sqrt{196} + ? = \sqrt{729}$
A. 18
B. 3
C. 1
D. −2
E. 7
Ans. C
Sol.
$\sqrt{144} + \sqrt{196} + ? = \sqrt{729}$
$\Rightarrow 12 + 14 + ? = 27$
$\Rightarrow 26 + ? = 27$
$\Rightarrow ? = 27 - 26 = 1$

6. $\sqrt[3]{519 + 407 + 9^2 + 18^2} = ?$
A. 13
B. 11
C. 16
D. 9
E. 12
Ans. B
Solution:
$? = \sqrt[3]{519 + 407 + 9^2 + 18^2}$
$= \sqrt[3]{519 + 407 + 81 + 324}$
$= \sqrt[3]{1331}$
$= 11$

7. 75% of 220 + $\frac{156}{3}$ × ? = 269
A. 5
B. 28
C. 2
D. 36
E. 16
Ans. C
Solution:
75% of 220 + $\frac{156}{3}$ × ? = 269
$\Rightarrow \frac{3}{4} \times 220 + 52 \times ? = 269$
$\Rightarrow 165 + 52 \times ? = 269$
$\Rightarrow 52 \times ? = 269 - 165$
$\Rightarrow 52 \times ? = 104$
$\Rightarrow ? = 2$

8. $\frac{145 \times 19 \times 3}{29 \times 57} + ?^3 = 32$
A. 7
B. 18
C. 2
D. 11
E. 3
Ans. E
Solution:
$\frac{145 \times 19 \times 3}{29 \times 57} + ?^3 = 32$
$\Rightarrow 5 + ?^3 = 32$

$\Rightarrow ?^3 = 27$

$\Rightarrow ? = 3$

9. 17% of 600 + 8% of 250 = ? − 73

A. 132

B. 176

C. 195

D. 203

E. 205

Ans. C

Sol.

17% of 600 + 8% of 250 = ? − 73

$\Rightarrow \frac{17}{100} \times 600 + \frac{8}{100} \times 250 = ? - 73$

$\Rightarrow 102 + 20 = ? - 73$

$\Rightarrow ? = 102 + 20 + 73 = 195$

10. The ratio of length to the breadth of a rectangle is 5 : 4. If the perimeter of rectangle is 126 cm, find the area of rectangle.

A. 720 cm^2

B. 980 cm^2

C. 1050 cm^2

D. 840 cm^2

E. None of these

Ans. B

Sol.

Let the length and breadth of rectangle be 5x cm and 4x cm respectively.

Perimeter of a rectangle = 2(length + breadth)

So, 2(5x + 4x) = 126

$\Rightarrow x = 7$

Length of rectangle = 5 × 7 = 35 cm

Breadth of rectangle = 4 × 7 = 28 cm

Area of rectangle = 35 × 28 = 980 cm^2

11. The cost price of two articles A and B are same. Article A is sold at 20% profit and article B is sold at 3% loss. If the total profit is Rs. 238, find the selling price of article B.

A. Rs. 1358

B. Rs. 1442

C. Rs. 1680

D. Rs. 1298

E. None of these

Ans. A

Sol.

Let the CP of A be 100x.

SO, CP of B = 100x

SP of A = 120% of 100x = 120x

SP of B = 97% of 100x = 97x

Total SP of A and B = 120x + 97x = 217x

Profit = 217x − 200x = 17x

17x = 238

$\Rightarrow x = 14$

Selling price of B = 97 × 14 = Rs. 1358

12. A car covers 360 km in 3 hours at the speed of x km/h. A bike travelling at the speed of y km/h covers 160 km in 2 hours. How much times of y is x?

A. 2

B. 3.5

C. 4

D. 1.5

E. None of these

Ans. D

Sol.

$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$

Speed of A = $\frac{360}{3}$ = 120 km/h

So, x = 120

Speed of B = $\frac{160}{2}$ = 80 km/h

So, y = 80

$\frac{x}{y} = \frac{120}{80} = 1.5$

$\Rightarrow x = 1.5y$

13. There is a 120 litres mixture of milk and water in a jar. The ratio of milk and water in the jar is 5 : 3 . If 20 litres of milk is added to the mixture, then find the ratio of milk and water.

A. 19 : 9

B. 18 : 7

C. 13 : 9

D. 20 : 7

E. None of these

Ans. A

Sol.

Quantity of milk in the mixture = $\frac{5}{8} \times 120$ = 75 litres

Quantity of water in the mixture = 120 – 75 = 45 litres

Required ratio = (75 + 20) : 45 = 19 : 9

14. If $X^2 - Y^2 = 95$ and (X – Y) = 5, what is the value of XY?

A. 60

B. 84

C. 80

D. 74

E. None of these

Ans. B

Sol.

$X^2 - Y^2 = 95$

$\Rightarrow (X + Y)(X - Y) = 95$

$\Rightarrow 5(X + Y) = 95$

X + Y = 19…..(1)

X – Y = 5…..(2)

Adding (1) and (2), we get:

2X = 24

$\Rightarrow$ X = 12

So, Y = 19 – 12 = 7

XY = 12 × 7 = 84

15. The average of five numbers is 32. Average of first and second number is 29 and the average of fourth and fifth number is 37. What is the third number?

A. 23

B. 34

C. 30

D. 24

E. 28

Ans. E

Sol.

Sum of numbers = Average × Number of numbers

Sum of five numbers = 32 × 5 = 160

Sum of first two numbers = 29 × 2 = 58

Sum of fourth and fifth number = 37 × 2 = 74

Third number = 160 – (58 + 74) = 28