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## - It's Your Turn Now Take AFREBMOckTest

# Seating Arrangement for RBI Grade B, SBI Clerk Mains, IBPS Clerk Mains and RBI Assistant Mains Exams. 

SA Set No 172
Directions: Study the following information carefully and answer the questions given beside.
Sixteen persons are sitting in three parallel rows. Only 4 persons are sitting in Row-1 and all are facing south direction. Only 8 persons are sitting in Row-2 such a way that the first 4 persons from the west face north direction and first 4 persons from the east face south direction. Only 4 persons are sitting in Row-3 and all are facing north direction. Row-1 is north of Row-2 and Row-2 is north of Row-3. First 4 persons from the west of Row-2 are facing the persons in the Row-1. Similarly, first 4 persons from the east of Row-2 are facing the persons in the Row-3.

Four persons are sitting between $P$ and $Q$. Neither $P$ nor $Q$ sits at any extreme ends. $Q$ faces the one, who sits immediate right of $R$. One person sits between $R$ and $S$. $T$ and $U$ are sitting immediate right of each other. $T$ and $Q$ are facing in same direction. $X$ sits to the immediate left of $Y$ and both are facing in north direction. $Y$ faces the one, who sits second to the right of Z. $U$ faces the one, who sits third to the left of $V . V$ and $W$ are immediate neighbours. $N$ sits second to the left of $M$, who sits third to the right of $O$. K sits second to the right of J.

## Questions :

1. Who among the following sits immediate right of $K$ ?
A. $N$
B. M
C. S
D. W
E. None of these
2. What is the position of $M$ with respect to the one, who is facing $Y$ ?
A. Immediately left
B. Third to the right
C. Second to the left
D. Fourth to the right E. None of these
3. In certain way $J$ is related to $T, U$ is related to $X$ and in same way which among the following pair can be related?
A. Y and R
B. N and V
C. M and Q
D. P and W
E. None of these

## 4. Which among the following statement is/are true?

I. Number of persons sitting to the left of $T$ is same as to the right of $X$.
II. M faces the one, who sits second to the left of S .
III. Only one person is sitting between T and O , who faces W .
A. Both II and III
B. Only I
C. Only II
D. Both I and II
E. All I, II and III
5. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group?
A. Y and N
B. J and Q
C. P and Z
D. U and O
E. T and V

## Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ |
| :--- | :--- | :--- | :--- | :--- |
| C | B | D | D | B |



## Common explanation :

## References:

Sixteen persons are sitting in three parallel rows.
Only 4 persons are sitting in Row-1 and all are facing south direction.
Only 8 persons are sitting in Row-2 such a way that the first 4 persons from the west face north direction and first 4 persons from the east face south direction.

Only 4 persons are sitting in Row-3 and all are facing north direction.
Row-1 is north of Row- 2 and Row- 2 is north of Row-3.

First 4 persons from the west of Row- 2 are facing the persons in the Row- 1 .
Similarly, first 4 persons from the east of Row- 2 are facing the persons in the Row- 3 .

## Inferences:

From above statements,
Let the positions of the persons be numbered as 1 to 16 such a way that 1 to 4 are sitting in Row- 1 facing south direction, 5 to 8 are sitting in Row- 2 facing north direction, 9 to 12 are sitting in Row- 2 facing south direction and 13 to 16 are sitting in Row-3 facing north direction.

Persons sitting in Row-1 (positions 1 to 4) are facing the persons in Row-2 (positions 5 to 8)
Similarly, persons sitting in Row-2 (positions 9 to 12 ) are facing the persons in Row-3 (positions 13 to 16)
Based on the above information we get the following seating as shown below,


## References:

Four persons are sitting between P and Q .

Neither P nor Q sits at any extreme ends.
$Q$ faces the one, who sits immediate right of $R$.

One person sits between $R$ and $S$.

## Inferences:

From above statements,

Four persons are sitting between $P$ and $Q$. Neither $P$ nor $Q$ sits at any extreme ends. Here we get 2 possibilities i.e. $P$ and $Q$ can sit at 6 and 11 , but not in same order.

## Case-1: When $P$ sits at 6 and then $Q$ sits at 11

$R$ and $S$ will sit at 14 and 16 respectively as shown,

Case-1


Row-3

## Case-2: When $P$ sits at 11 and then $Q$ sits at 6

$R$ and $S$ will sit at 3 and 1 respectively as shown,

## Case-2



Row-3

$$
\overline{13 \uparrow} \quad 14 \uparrow \quad 16 \uparrow \quad 16 \uparrow
$$

References:
$T$ and $U$ are sitting immediate right of each other.

T and $Q$ are facing in same direction.

U faces the one, who sits third to the left of V .

V and W are immediate neighbors.

## Inferences:

From above statements,
$T$ and $U$ are sitting immediate right of each other. This means that, $T$ sits immediate right of $U$ and $U$ sits immediate right of T (only possible at position $8 \& 9$ in both cases)

Case-1: $T$ and $Q$ are facing in same direction i.e. $T$ and $Q$ are facing in south direction. Therefore $T$ and $U$ sit at 9 and 8 respectively. U faces the one, who sits third to the left of V i.e. V sits at 1 . Finally, W sits at 2 as shown, Case-1


Case-2: T and Q are facing in same direction i.e. T and Q are facing in north direction. Therefore T and U sit at 8 and 9 respectively. U faces the one, who sits third to the left of V i.e. V sits at 16 . Finally, W sits at 15 as shown,

Case-2


Row-3

$$
\overline{{ }_{13} \uparrow} \overline{{ }_{14} \uparrow} \frac{W}{16 \uparrow} \frac{V}{{ }_{16} \uparrow}
$$

## References:

$X$ sits to the immediate left of $Y$ and both are facing in north direction.
$Y$ faces the one, who sits second to the right of $Z$.

## Inferences:

From above statements,
Case-1 gets eliminated since we can't satisfy the $1^{\text {st }}$ reference point.


Case-2: Here, $X$ and $Y$ sit at $13 \& 14$ respectively (only possibility). $Y$ faces the one, who sits second to the right of $Z$ i.e. $Z$ sits at 12 as shown,

## Case-2



Row-3


## References:

$N$ sits second to the left of $M$, who sits third to the right of $O$.
K sits second to the right of J.

## Inferences:

From above statements,
$N$ sits second to the left of $M$, who sits third to the right of $O$ i.e. $N, M$ and $O$ sit at 5, 7 and 10 respectively.
K sits second to the right of J i.e. K and J sit at 2 and 4 respectively.
All the given conditions get satisfied and we get the completed arrangement,

## Case-2



## Answers:

1. Following the common explanation, we get "S".

S sits immediate right of K .

Hence, option C is correct.
2. Following the common explanation, we get "Third to the right".

O is facing Y and M sits third to the right of O .

Hence, option B is correct.
3. Following the common explanation, we get "P and W".

Relation: J is facing T and U is facing X .
Among options, only P is facing W .

Hence, option D is correct.
4. Following the common explanation, we get "Both I and II are True".

Hence, option D is correct.
5. Following the common explanation, we get "J and Q i.e. both are facing opposite direction to each other".

Remaining all 4 combinations are paired as that they are facing in same direction.
Hence, option B is correct.

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