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Seating arrangement questions for IBPS PO pre, IBPS SO pre, IBPS clerk, SBI PO pre and SBI clerk exams.

SEATING ARRANGEMENT SET NO 86

Directions: Read the given information carefully and answer the questions given beside:

Certain number of persons is sitting around the circular table.

All of them are facing towards the center.

Distance between any two adjacent persons is same.

Akhil is facing Pravin, who is sitting second to the right of Tahir.

Sriman is facing Lokesh, who is sitting fourth to the right of Chahal.

None among Sriman, Chahal and Lokesh is an immediate neighbor of Pravin.

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The person, who is sitting four places away from Tahir, is not immediate neighbor of Chahal.

Manoj, who is sitting seven places away from Tahir, is not immediate neighbor of Akhil.

At most 13 people sit around the circular table.

1. How many people are sitting around the table?

A. 11 B. 9 C. 10

D. 13 E. None of these

2. How many people are sitting between Manoj and Akhil, when counted from left of Akhil?

A. One B. Two C. Three

D. Four E. None of these

3. Which of the following statements is true?

A. Akhil sits third to the left of Lokesh

B. Sriman sits third to the right of Pravin

C. Tahir sits fifth to the left of Sriman

D. Chahal sits to the immediate right of Manoj

E. None is true

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4. In certain way Akhil is related to Chahal and Tahir is related to Lokesh and in same way that, who among the following person is related to Sriman?

A. Chahal B. Manoj C. Pravin

D. Lokesh E. None of these

5. Who sits at an even numbered place?

A. Chahal B. Manoj C. Lokesh

D. Akhil E. None of these

Correct answers:

1	2	3	4	5
E	B	D	A	B

Common Explanation

References:

At most 13 people sit around the circular table.

Distance between any two adjacent persons is same.

Akhil is facing Pravin, who is sitting second to the right of Tahir.

Inferences:

From above statements,

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Note: If two people facing each other in circular seating means, equal number of seats should be there on either side of that people. From 3rd reference point, we conclude that either 8 or 10 or 12 people maximum sit around the circular table.

Let the position of people around the circular table are numbered as 1 to 8/10/12 in clock wise direction.

Keep this information in mind while solving this puzzle.

References:

Akhil is facing Pravin, who is sitting second to the right of Tahir.

Sriman is facing Lokesh, who is sitting fourth to the right of Chahal.

None among Sriman, Chahal and Lokesh is an immediate neighbor of Pravin.

Inferences:

From above statements,

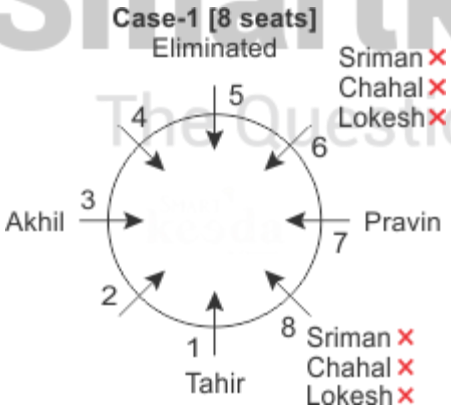
Given, Akhil is facing Pravin. Pravin sits second to the right of Tahir.

Given, Sriman is facing Lokesh. Lokesh sits fourth to the right of Chahal.

Case-1: If 8 people sit around the circular table

Tahir and Pravin sit at 1st and 7th position respectively. Akhil sits at 3rd position (reference point-1)

Then there is no place for Sriman, Lokesh and Chahal as per condition. Hence this case become invalid and it can be eliminated.



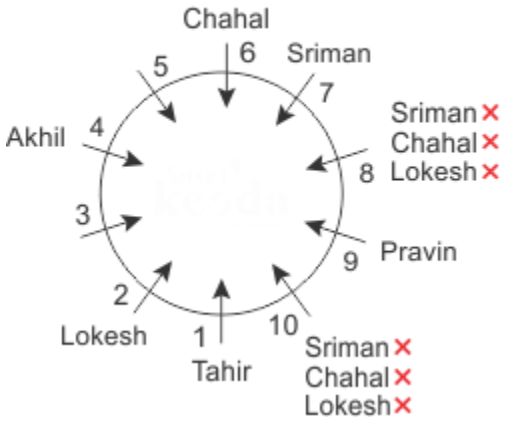
Case-2: If 10 people sit around the circular table

Tahir and Pravin sit at 1st and 9th position respectively. Akhil sits at 4th position (reference point-1)

Lokesh, Chahal and Sriman sit at 2nd, 6th and 7th position respectively (only possibility, reference point-2 & 3)

By using this information we get the following seating as shown,

Case-2 [10 seats]



Case-3 & 3-A: If 12 people sit around the circular table

Tahir and Pravin sit at 1st and 11th position respectively. Akhil sits at 5th position (reference point-1)

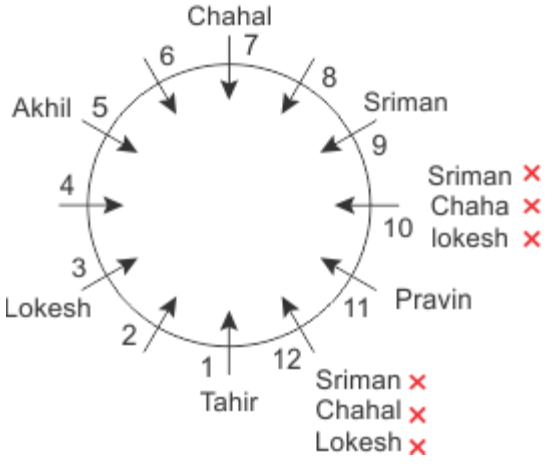
With respect 2nd and 3rd reference point we get two possibilities as shown,

Lokesh, Chahal and Sriman sit at 3rd, 7th and 9th position respectively (1st possibility, Case-3)

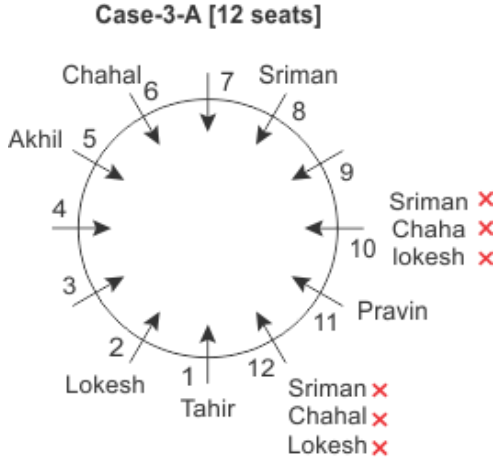
Lokesh, Chahal and Sriman sit at 2nd, 6th and 8th position respectively (2nd possibility, Case-3-A)

By using this information we get the following seating as shown,

Case-3 [12 seats]



Case-3-A [12 seats]



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References:

The person, who is sitting four places away from Tahir, is not immediate neighbor of Chahal.

Manoj, who is sitting seven places away from Tahir, is not immediate neighbor of Akhil.

Inferences:

From above statements,

Case-2: Here 10 people sit around the circular table

As per 1st reference point, people who sit at 5th and 7th position [4 places away from Tahir on either side] are not the neighbor of Chahal. But in this arrangement Chahal sit at 6th position i.e. Chahal is neighbor of both 5th and 7th position. Hence this case become invalid and it can be eliminated.

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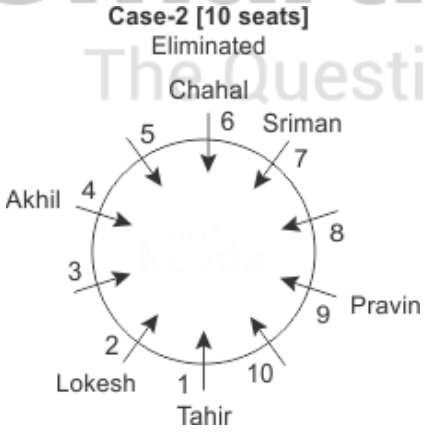


Case-3: Here 12 people sit around the circular table

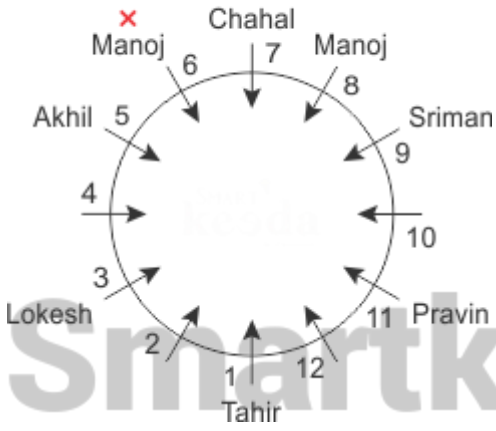
1st reference point gets satisfied itself in 12 people seated circle.

Manoj is sitting seven places away from Tahir. It means there are six people sit between Manoj and Tahir. Manoj is not the neighbor of Akhil.

Here, if Manoj is seated at a gap of 6 people to the right of Tahir, then Manoj is the neighbor of Akhil which is no possible as per condition.

Therefore Manoj is seated at a gap of 6 people to the left of Tahir i.e. Manoj sits at 8th position. All conditions get satisfied and we get the completed seating as shown,

Case-3 [12 seats]
Final seating



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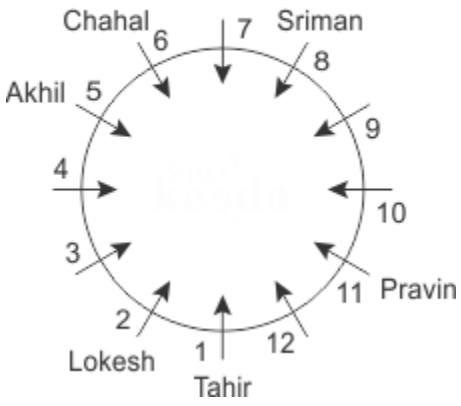
Case-3-A: Here 12 people sit around the circular table

In this case-3-A, if we count left of Tahir, Akhil sits 4 places away from Tahir and Akhil is the immediate neighbor of Chahal which is not possible as per 1st reference point. Hence this case become invalid and it can be eliminated.

Case-3 [12 seats]
Eliminated



Explanations:

1.

Following the common explanation, we get "None of these".

12 people are sitting around the table.

Hence, option E is correct.

2.

Following the common explanation, we get "Two".

Two people are sitting between Manoj and Akhil, when counted from left of Akhil

Hence, option B is correct.

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3.

Following the common explanation, we get "Chahal sits to the immediate right of Manoj".

Hence, option D is correct.

4.

Following the common explanation, we get "Chahal".

Relation: Akhil sits 2nd to the right of Chahal

Tahir sits 2nd to the right of Lokesh

Similarly, Chahal sits 2nd to the right of Sriman

Hence, option A is correct.

5.

In the Following common explanation it is clear that Manoj sits at even numbered place.

Hence, option A is correct.

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