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Seating Arrangement Questions for SBI PO Pre, IBPS PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Set No 61

Directions: Study the following information carefully and answer the questions given beside.

Fourteen numbers – 11 to 24 are written in two parallel rows such that numbers from 11 to 17 are written in row 1 facing towards south direction and numbers from 18 to 24 are written in the row 2 such that all are facing towards north direction. Each number written in the row 1 faces the number written in row 2.

11 is written third to the right of 12 such that either 12 or 11 is written at the end of the row. 19 is written third to the right of 20. Neither 19 nor 20 face 11 and 12. The one which faces 13 is written third to the right of 18. None of the immediate neighbours 12 Faces 20. 13 is written third to the left of 16. 20 does not face 16. One of the immediate neighbours of 16 Faces 22, which is not written at the end of the row. 14 is not the immediate neighbour of 13. 17 is written on the left of 15 but not on the immediate left. 21 does not face 17 and 13. 24 does not face 13. 23 and 24 are immediate neighbours. 15 is not written at the end of the row. 14 does not face 21.

1. Which of the following numbers is written third to the right of one which faces 23?

A. 11   B. 16   C. 17   D. 14   E. None of these

2. How many number(s) are written on the right of 15?

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

3. Which of the following numbers is written in front of 21?

A. 17   B. 12   C. 11   D. 14   E. None of these

4. Which of the following combinations is written at the extreme end of the row?

A. 11, 23   B. 21, 17   C. 15, 19   D. 14, 19   E. None of these

5. How many numbers are written to the left of 22?

A. None   B. One   C. Two   D. Three   E. None of these

Correct Answers:

1	2	3	4	5
B	E	C	B	D

Common Explanations:

Reference:
Fourteen numbers – 11 to 24 are written in two parallel rows such that numbers from 11 to 17 are written in row 1 facing towards south direction and numbers from 18 to 24 are written in the row 2 such that all are facing towards north direction. Each number written in the row 1 faces the number written in row 2.

Inference:
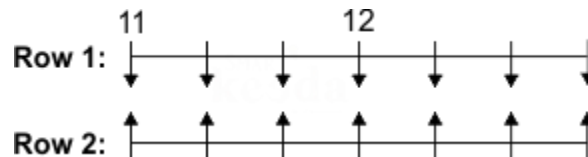We will keep this information in mind while solving the puzzle.

Reference:
11 is written third to the right of 12 such that either 12 or 11 is written at the end of the row.
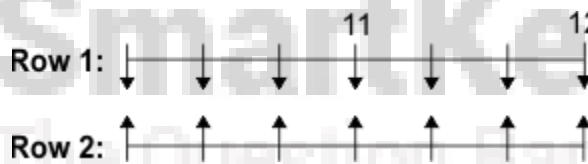
Inference:
Here, we have two possible scenarios in which the above information can be used accordingly.

Case 1:

Case 2:

Reference:
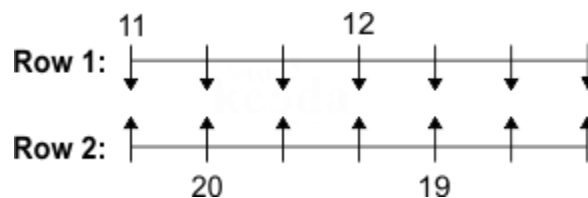19 is written third to the right of 20.
Neither 19 nor 20 face 11 and 12.
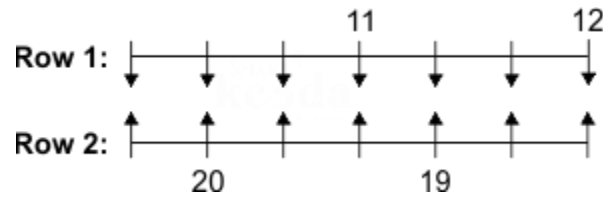None of the immediate neighbours 12 faces 20.

Inference:
Here, we can use the above hints easily in case 1 but there are two possible scenarios in which the above hints can be used in case 2.
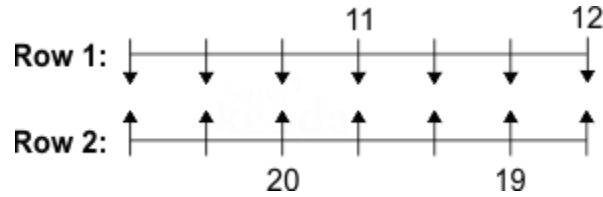
Case 1:

Case 2-A:

Row 1: ────┼────┼────┼────11────┼────┼────12────
Row 2: ────┼────┼────┼────┼────┼────┼────
       20   19

Case 2-B:

Row 1: ────┼────┼────┼────11────┼────┼────12────
Row 2: ────┼────┼────┼────┼────┼────┼────
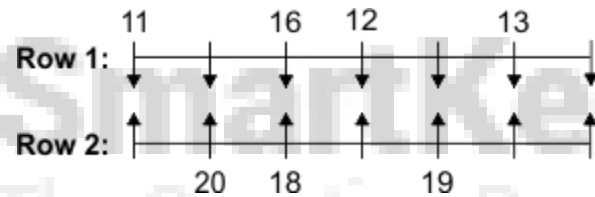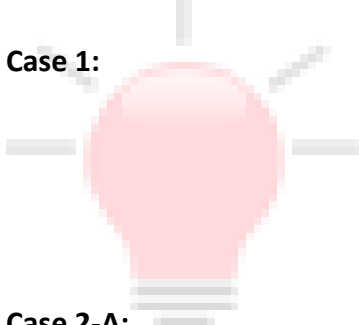   20   19

Reference:
The one which faces 13 is written third to the right of 18.
13 is written third to the left of 16.

Inference:
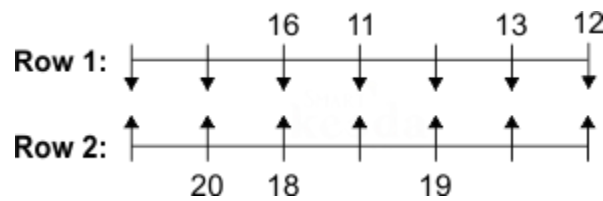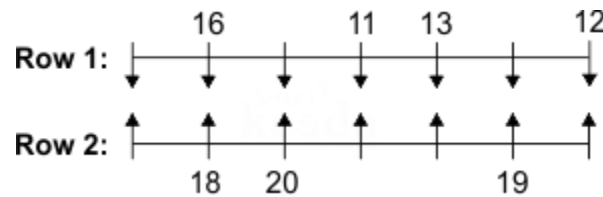After using the above hints all of our cases can be redrawn as:

Case 1:

Row 1: 11   16   12   13
Row 2:
       20   18   19

Case 2-A:

Row 1:   16   11   13   12
Row 2:
           20   18   19

Case 2-B:

Row 1:   16   11   13   12
Row 2:
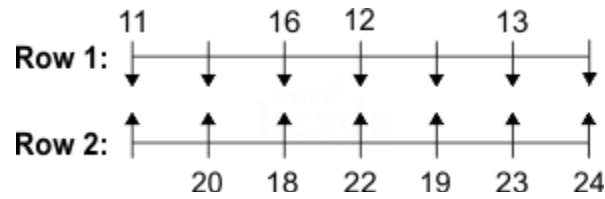   18   20   19

Reference:

One of the immediate neighbours of 16 Faces 22, which is not written at the end of the row.
24 does not face 13.
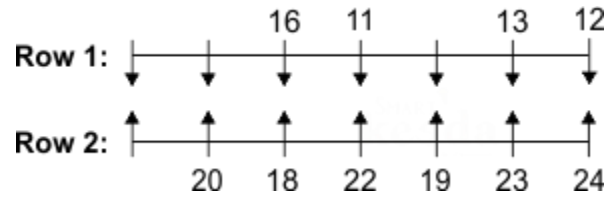23 and 24 are immediate neighbours.

Inference:
At this point, we cannot use the above hints in case 2-B so we can say that **case 2-B is an invalid case**.

Case 1:

	11		16	12		13	
Row 1:	↓	↓	↓	↓	↓	↓	↓
Row 2:	↑	↑	↑	↑	↑	↑	↑
		20	18	22	19	23	24

Case 2-A:

			16	11		13	12
Row 1:	↓	↓	↓	↓	↓	↓	↓
Row 2:	↑	↑	↑	↑	↑	↑	↑
		20	18	22	19	23	24

Reference:
14 is not the immediate neighbour of 13.
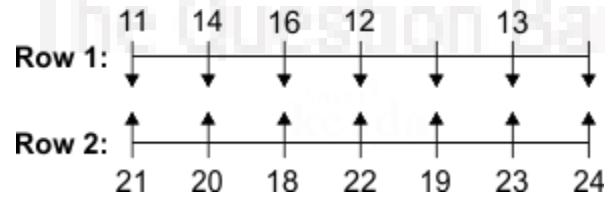21 does not face 17 and 13.
14 does not face 21.
15 is not written at the end of the row.

Inference:
At this point, we cannot use the above hints in case 2-A so we can say that **case 2-A is an invalid case**.
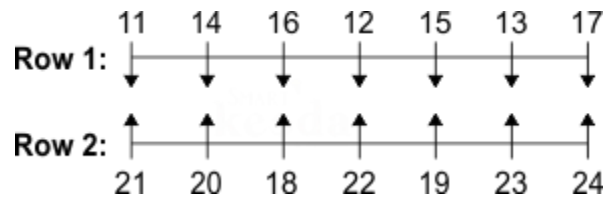
Case 1:

	11	14	16	12		13	
Row 1:	↓	↓	↓	↓	↓	↓	↓
Row 2:	↑	↑	↑	↑	↑	↑	↑
	21	20	18	22	19	23	24

Reference:
17 is written on the left of 15 but not on the immediate left.

Inference:
After using the above hints, we have:

Case 1:

	11	14	16	12	15	13	17
Row 1:	↓	↓	↓	↓	↓	↓	↓
Row 2:	↑	↑	↑	↑	↑	↑	↑
	21	20	18	22	19	23	24

Answers :

1.   Following the final solution we can say that
16 is written third to the right of one which faces 23.
Hence, the correct answer is option B.

2.   Following the final solution we can say that
four numbers are written on the right of 15.
Hence, the correct answer is option **E**.

3.   Following the final solution we can say that
11 is written in front of 21.
Hence, the correct answer is option **C**.

4.   Following the final solution we can say that
21 and 17 are written at the extreme ends of the row.
Hence, the correct answer is option **B**.

5.   Following the final solution we can say that
three numbers are written on the left of 22.
Hence, the correct answer is option **D**.