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

## SA Set No 144

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

Eight chairs A to H are arranged in a linear row and all the chairs are facing south direction. Each chair has a different serial number among 16, 22, 13, 20, 11, 17, 18 and 21. All the above information is not necessarily in the same order. Distance between two adjacent chair is equal.

The chair numbered 17 is placed third to the left of Chair A and neither of these chairs is placed at any extreme end of the row. Chair C and Chair A are placed adjacent to each other. Two chairs are placed between Chair C and the chair numbered 13. The chair numbered 13 is placed to the right of chair numbered 17. Chair G is placed to the immediate right of chair numbered 13. Minimum three chairs are placed between Chair G and the chair numbered 21. The chair numbered 11 is placed to the immediate left of chair numbered 21. Chair E is placed to the left of the chair numbered 11. Chair E is numbered neither 17 nor 13. Chair D is numbered as 18. Neither Chair G nor Chair A is numbered 22. The chair numbered 20 is not placed to the left of chair numbered 16. Chair B and Chair H are placed adjacent to each other. Less than four chairs are placed between Chair F and Chair B.

**1. What is the difference between the serial number of Chair F and Chair H?**

- A. Seven      B. Three      C. Five      D. Four      E. None of these

**2. How many chairs are placed between Chair B and the chair numbered as 20?**

- A. Four      B. Five      C. Two      D. Three      E. None of these

**3. 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. Chair G-18      B. Chair F-16      C. Chair E-11      D. Chair H-21      E. Chair B-17

**4. What is the position of chair numbered 16 with respect to chair numbered 11?**

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

**5. Which of the following statements is true?**

- A. Number of chairs to the left of chair numbered 11 is same as to the right of Chair F.  
B. More than two chairs are placed between Chair D and chair numbered 21.  
C. Difference between the serial numbers of Chair B and Chair H is at least 5.  
D. Chair F and chair numbered 16 are placed adjacent to each other.  
E. None of these

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
D	A	E	E	C



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**Common explanation :**

**References:**

The chair numbered 17 is placed third to the left of Chair A and neither of these chairs is placed at the extreme ends of the row.

Chair C and Chair A are placed adjacent to each other.

Two chairs are placed between Chair C and the chair numbered 13.

The chair numbered 13 is placed to the right of chair numbered 17.

Chair G is placed to the immediate right of chair numbered 13.

**Inferences:**

From above statements,

Let the position of chairs are numbered as 1 to 8 from extreme right end (south direction)

With respect to the 1<sup>st</sup> reference point, we get 3 possibilities.

**Case-1:** Chair A and chair numbered 17 are placed at 2<sup>nd</sup> and 5<sup>th</sup> position respectively. Given, chair numbered 13 is placed to the right of chair numbered 17. Therefore Chair C and the chair numbered 13 are placed at 1<sup>st</sup> and 4<sup>th</sup> position respectively (only possibility). Finally, Chair G is placed at 3<sup>rd</sup> position as shown in below seating,

Case-1 [South Direction]								
Chairs	Chair C	Chair A	Chair G					
S.No				13	17			
Position	1	2	3	4	5	6	7	8

**Case-2:** Chair A and chair numbered 17 are placed at 3<sup>rd</sup> and 6<sup>th</sup> position respectively. Given, chair numbered 13 is placed to the right of chair numbered 17. Therefore Chair C and the chair numbered 13 are placed at 2<sup>nd</sup> and 5<sup>th</sup> position respectively (only possibility). Finally, Chair G is placed at 4<sup>th</sup> position as shown in below seating,

Case-2 [South Direction]								
Chairs		Chair C	Chair A	Chair G				
S.No					13	17		
Position	1	2	3	4	5	6	7	8

**Case-3:** Chair A and chair numbered 17 are placed at 4<sup>th</sup> and 7<sup>th</sup> position respectively. Given, chair numbered 13 is placed to the right of chair numbered 17. Therefore Chair C and the chair numbered 13 are placed at 3<sup>rd</sup> and 6<sup>th</sup> position respectively (1<sup>st</sup> possibility). Finally, Chair G is placed at 5<sup>th</sup> position as shown in below seating,

Case-3 [South Direction]								
Chairs			Chair C	Chair A	Chair G			
S.No						13	17	





Chairs			Chair C	Chair A	Chair G			Chair E
S.No	21	11				13	17	
Position	1	2	3	4	5	6	7	8

**Case-3-A:** As per 1<sup>st</sup> and 2<sup>nd</sup> reference point, the chair numbered 21 and chair numbered 11 are placed at 5<sup>th</sup> and 6<sup>th</sup> position respectively (only possibility). Finally Chair E is placed at 8<sup>th</sup> position as shown in below seating (only possibility as per 3<sup>rd</sup> and 4<sup>th</sup> reference point) since Chair E is not numbered either 13 or 17.

Case-3-A [South Direction]								
Chairs	Chair G			Chair A	Chair C			Chair E
S.No		13			21	11	17	
Position	1	2	3	4	5	6	7	8

#### References:

Chair D is numbered as 18.

Neither Chair G nor Chair A is numbered 22.

The chair numbered 20 is not placed to the left of chair numbered 16.

Chair B and Chair H are placed adjacent to each other.

Less than four chairs are placed between Chair F and Chair B.

#### Inferences:

From above statements,

**Case-3:** There is no placed for Chair D (serial number is 18). Hence this case become invalid and it can be eliminated.

Case-3 [South Direction]-[Eliminated]								
Chairs			Chair C	Chair A	Chair G			Chair E
S.No	21	11				13	17	
Position	1	2	3	4	5	6	7	8

**Case-3-A:** Here Chair D (serial number is 18) is placed at 3<sup>rd</sup> position (only possibility). Given, neither Chair G nor Chair A is numbered 22. Therefore Chair E is numbered as 22 (only possibility). As per 3<sup>rd</sup> reference point and below seating, Chair G and Chair A are numbered as 20 and 16 respectively (only possibility). As per 4<sup>th</sup> and 5<sup>th</sup> reference point, Chair F, Chair B and Chair H are placed at 2<sup>nd</sup>, 6<sup>th</sup> and 7<sup>th</sup> position respectively (only possibility).

All the conditions get satisfied and we get the completed table as shown in Case-3-A

Case-3-A [South Direction]								
Chairs	Chair G	Chair F	Chair D	Chair A	Chair C	Chair B	Chair H	Chair E
S.No	20	13	18	16	21	11	17	22
Position	1	2	3	4	5	6	7	8



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### Answers:

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

Chair F = 13 & Chair H = 17

Difference =  $17 - 13 = 4$

Hence, option D is correct.

- 2.** Following the common explanation, we get "Four".

4 chairs are placed between Chair B and Chair G (serial number is 20).

Hence, option A is correct.

- 3.** Following the common explanation, we get "No chairs are placed between Chair B and Chair H (serial number is 17)".

Remaining combinations are paired with 1 chair is placed between them

Hence, option E is correct.

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

Chair A (serial number is 16) is placed second to the right of Chair B (serial number is 16)

Hence, option E is correct.

- 5.** Following the common explanation, we get "Option C is true".

Chair B = 11 and Chair H = 17

Difference =  $17 - 11 = 6$  (minimum 5)

Hence, option C is correct.

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