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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 81

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

Irfan, Harish, Govind, Francis, Edwin, Diwan, Chandra, Bala and Ashwin are sitting in two parallel rows. Each row has six seats. Nine persons are sitting in nine seats and there are three vacant seats. Therefore in the given arrangement, each member seated in a row faces another member of the other row or vacant seat. Vacant seats are not facing each other. Each of them like different mobile phones like Redmi, Lenovo, Samsung, Sony, Micromax, Moto, Asus, Oppo and Vivo. The person sit in row-1 facing south direction and the person sit in row-2 facing north direction. Row-1 is followed by Row-2. All the above information is not necessarily in the same order.

The person, who is sitting third to the right of Diwan, is facing the person or vacant seat who/which is immediate right of the one who likes Oppo. Govind is an immediate neighbor of vacant seats. Only one person sits between the one who likes Asus and the one who likes Oppo. Diwan and the one who likes Samsung are facing each other. Edwin is second to the right of the one who likes Sony. One who likes Lenovo and the one who likes Moto are immediate neighbors of each other. Ashwin, who likes Micromax, is not sitting adjacent to any of the vacant seats. One who likes Lenovo and one who likes Vivo are facing each other. Harish and Irfan, who likes Samsung, are diagonally opposite to each other. The number of persons to the right of Edwin and the number of persons to the left of Francis are same. Diwan likes Sony mobile phone. One, who likes Redmi, sits third to the right of the one who likes Lenovo. Bala likes neither Oppo nor Asus. Chandra sits right of Govind, who does not face south direction.

**1. Who among the following persons likes Asus mobile phone?**

- A. Francis                      B. Govind                      C. Chandra  
D. Edwin                      E. Cannot be determined

**2. Which of the following combinations is definitely true?**

- A. Bala-Redmi                      B. Govind-Oppo                      C. Irfan-Vivo  
D. Edwin-Moto                      E. None of these

**3. How many persons sit between the one who likes Redmi and the one who likes Sony?**

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

**4. The person who sits second to the left of Francis is facing whom among the following persons?**

- A. Bala                      B. Edwin                      C. Harish  
D. Diwan                      E. None of these

**5. Who among the following sits opposite to the person who sits third to the left of Edwin?**

- A. Chandra                      B. Francis                      C. Govind  
D. Irfan                      E. None of these

### Correct answers:

1	2	3	4	5
A	B	B	E	D

### Common Explanation

#### References:

1. Harish and Irfan, who likes Samsung, are diagonally opposite to each other.
2. Diwan and the one who likes Samsung are facing each other.
3. Diwan likes Sony mobile phone.
4. The person, who is sitting third to the right of Diwan, is facing the person or vacant seat who/which is immediate right of the one who likes Oppo.

#### Inferences:

From above information,

From point 1, 2, 3 we get Irfan likes Samsung phone and Diwan likes Sony Phone & both are sitting opposite to each other [either north or south direction]

Note: Irfan, Harish & Diwan all are sitting at extreme ends.

With reference to 4th point, Diwan can sit at either extreme left end of Row-1 (South direction) or extreme left end of Row-2 (North direction), by this we get two possibilities.

**Case:1** Harish sits at extreme right end of row-1 and Irfan sits at extreme right end of row-2 (diagonally opposite)

Case: 1						
Row – 1 (Person) ↓	Harish					Diwan
Mobile						Sony
Mobile		Oppo				Samsung
Row – 2 (Person) ↑						Irfan

**Case: 1** Harish sits at extreme right end of row-2 and Irfan sits at extreme right end of row-1 (diagonally opposite to each other) & Diwan sits opposite to Irfan. By using above information we get the initial seating as follows,

Case: 2						
Row – 1 (Person) ↓	Irfan					
Mobile	Samsung				Oppo	
Mobile	Sony					
Row – 2 (Person) ↑	Diwan					Harish

### References:

1. Edwin is second to the right of the one who likes Sony.
2. One who likes Lenovo and the one who likes Moto are immediate neighbors of each other.
3. One who likes Lenovo and one who likes Vivo are facing each other.
4. One, who likes Redmi, sits third to the right of the one who likes Lenovo.

### Inferences:

From above information,

With reference to 4<sup>th</sup> point, in Case: 1, the one who likes Lenovo must in Row-1 & faces south direction to satisfy the reference points 2 & 3. But we get two possibilities as shown in seating arrangement. [i.e. Case-1 & Case-1-A]

Case: 1						
Row – 1 (Person) ↓	Harish			Edwin		Diwan
Mobile		Redmi		Moto/	Lenovo	Sony
Mobile		Oppo			Vivo	Samsung
Row – 2 (Person) ↑						Irfan

Case: 1-A						
Row – 1 (Person) ↓	Harish			Edwin		Diwan
Mobile	Redmi		Moto/	Lenovo	Moto/	Sony
Mobile		Oppo		Vivo		Samsung
Row – 2 (Person) ↑						Irfan

With reference to 4<sup>th</sup> point, in Case: 2, the one who likes Lenovo must in Row-2 & faces north direction to satisfy the reference points 2 & 3. But we get two possibilities as shown in seating arrangement. [i.e. Case-2 & Case-2-A]

Case: 2						
Row – 1 (Person) ↓	Irfan					
Mobile	Samsung	Vivo			Oppo	
Mobile	Sony	Lenovo	Moto		Redmi	
Row – 2 (Person) ↑	Diwan		Edwin			Harish

Case: 2-A						
Row – 1 (Person) ↓	Irfan					
Mobile	Samsung		Vivo		Oppo	
Mobile	Sony	Moto/	Lenovo	Moto/		Redmi
Row – 2 (Person) ↑	Diwan		Edwin			Harish

**References:**

Only one person sits between the one who likes Asus and the one who likes Oppo.

**Inferences:**

From above information,

In Case-1, the one who likes Asus sits on the 2<sup>nd</sup> left of Irfan & there must be one person sit between one who likes Asus and the one who likes Oppo as per statement. But if we observe the case-1, 10 seats are occupied by person or mobile phone which is not possible. Hence this case can be eliminated.

Case: 1 [Eliminated] Total occupied seats exceed 9.						
Row – 1 (Person) ↓	Harish			Edwin		Diwan
Mobile		Redmi		Moto	Lenovo	Sony
Mobile		Oppo	One person should sit	Asus	Vivo	Samsung
Row – 2 (Person) ↑						

In Case-1-A, the one who likes Asus sits on the immediate left of Irfan, by this the seat which is on the immediate right of the one who likes Oppo becomes Vacant as per given statement and it is shown in seating.

Case: 1-A						
<b>Row – 1 (Person) ↓</b>	Harish			Edwin		Diwan
<b>Mobile</b>	Redmi		Moto/	Lenovo	Moto/	Sony
<b>Mobile</b>		Oppo	Vacant	Vivo	Asus	Samsung
<b>Row – 2 (Person) ↑</b>						

In Case-2, the one who likes Asus sits on the 2<sup>nd</sup> left of Irfan & there must be one person sit between one who likes Asus and the one who likes Oppo as per statement. But if we observe the case-2, 10 seats are occupied by person or mobile phone which is not possible. Hence this case can be eliminated.

Case: 2 [Eliminated] Total occupied seats exceed 9.						
<b>Row – 1 (Person) ↓</b>	Irfan			One person should sit		
<b>Mobile</b>	Samsung	Vivo	Asus		Oppo	
<b>Mobile</b>	Sony	Lenovo	Moto		Redmi	
<b>Row – 2 (Person) ↑</b>	Diwan		Edwin			Harish

In Case-1, the one who likes Asus sits on the immediate left of Irfan, by this the seat which is on the immediate right of the one who likes Oppo becomes Vacant as per given statement and it is shown in seating.

Case: 2-A						
<b>Row – 1 (Person) ↓</b>	Irfan			Vacant		
<b>Mobile</b>	Samsung	Asus	Vivo		Oppo	
<b>Mobile</b>	Sony	Moto/	Lenovo	Moto/		Redmi
<b>Row – 2 (Person) ↑</b>	Diwan		Edwin			Harish

**References:**

1. The number of persons to the right of Edwin and the number of persons to the left of Francis are same.

2. Ashwin, who likes Micromax, is not sitting adjacent to any of the vacant seats.
3. Govind is an immediate neighbor of vacant seats.
4. Chandra sits right of Govind, who does not face south direction.
5. Bala likes neither Oppo nor Asus.
6. Vacant seats are not facing each other.

### **Inferences:**

From above information,

With reference to 1<sup>st</sup> point, number of persons to the right of Edwin is 2. Because there should be 3 vacant seats in the arrangement. Therefore number of persons to the left of Francis must also be 2 in both case-1-A & Case-1-B

If we observe the case-1-A & Case-1-B, 8 seats are occupied either with person or mobile and the remaining one seat is filled by Ashwin, who likes Micromax phone. **From this we clearly understood that, Bala, Govind, Chandra and Francis must like Oppo, Vivo, Asus and Moto but not necessarily in the same order. I.e. No new seats can be occupied by these 4 persons.**

**Now up to the given condition, let check the possibilities:**

**Note:** Chandra sits right of Govind and both are facing north direction. Govind is an immediate neighbor of vacant seats.

**Case: 1-A:** To satisfy the reference point-1, Francis must like Asus; by this number of persons to the right of Edwin is 2. Therefore number of persons to the left of Francis is also 2. Then, Govind likes Oppo and Chandra likes Vivo. Then Bala must like Moto (Bala doesn't like Oppo or Asus).

With the last hint we know that two vacant seats can't face each other, so the only left person Ashwin must face the vacant seat of row 2. So, the first and second vacant seats are there in the row 2, but there should be a total of 3 vacant seats as only 9 people are sitting, thus the **third vacant seat is beside Ashwin, which will violate the 2<sup>nd</sup> reference point.**



Both the vacant seats should be adjacent to Govind, with reference to the 3<sup>rd</sup> reference point which says that Govind is an immediate neighbor of vacant seats.

Case: 1-A When Bala is immediate left of Edwin [Eliminated] No place for Ashwin to sit						
<b>Row – 1 (Person) ↓</b>	Harish	Vacant	Ashwin-X	Edwin	Bala	Diwan
Mobile	Redmi			Lenovo	Moto	Sony
Mobile	Vacant	Oppo	Vacant	Vivo	Asus	Samsung
<b>Row – 2 (Person) ↑</b>		Govind		Chandra	Francis	Irfan

**Case: 1-B:** To satisfy the reference point-1, Francis must like Asus; by this number of persons to the right of Edwin is 2. Therefore number of persons to the left of Francis is also 2. Then, Govind likes Oppo and Chandra likes Vivo. Then Bala must like Moto (Bala doesn't like Oppo or Asus).

Neither vacant seats are facing each other nor Ashwin is a neighbor of vacant seat. **All the conditions are satisfied.**

Case: 1-B When Bala is immediate right of Edwin						
<b>Row – 1 (Person) ↓</b>	Harish	Vacant	Bala	Edwin	Ashwin	Diwan
Mobile	Redmi		Moto	Lenovo	Micromax	Sony
Mobile	Vacant	Oppo	Vacant	Vivo	Asus	Samsung
<b>Row – 2 (Person) ↑</b>		Govind		Chandra	Francis	Irfan

If we observe the case-2-A & Case-2-B 8 seats are occupied either with person or mobile and the remaining one seat is filled by Ashwin, who likes Micromax phone. **From this we clearly understood that, Bala, Govind, Chandra and Francis must like Oppo, Vivo, Asus and Moto but not necessarily in the same order. I.e. No new seats can be occupied by these 4 persons**

**Chandra sits right of Govind and both are facing north direction. Govind is an immediate neighbor of vacant seats.** But in both the cases only one seat can be filled by either Chandra or Govind. If Chandra or Govind sit in a new place in Row-2 (a seat which is not occupied by mobile phone), then total seats exceed 9 which is not possible. Hence both the following cases can be eliminated.

<b>Case: 2-A [Eliminated]</b>						
<b>Govind does not face south</b>						
<b>Row – 1 (Person) ↓</b>	Irfan	Francis		Vacant		
<b>Mobile</b>	Samsung	Asus	Vivo		Oppo	
<b>Mobile</b>	Sony	Moto	Lenovo			Redmi
<b>Row – 2 (Person) ↑</b>	Diwan		Edwin			Harish

<b>Case: 2-B [Eliminated]</b>						
<b>Govind does not face south</b>						
<b>Row – 1 (Person) ↓</b>	Irfan			Vacant		
<b>Mobile</b>	Samsung	Asus	Vivo		Oppo	
<b>Mobile</b>	Sony		Lenovo	Moto		Redmi
<b>Row – 2 (Person) ↑</b>	Diwan		Edwin			Harish

Clearly, only case 1-B satisfies all the given hints, thus the final arrangement will be obtained through Case 1-B.

<b>Case: 1-B</b>						
<b>Row – 1 (Person) ↓</b>	Harish		Bala	Edwin	Ashwin	Diwan
<b>Mobile</b>	Redmi	Vacant	Moto	Lenovo	Micromax	Sony
<b>Mobile</b>	Vacant	Oppo	Vacant	Vivo	Asus	Samsung
<b>Row – 2 (Person) ↑</b>		Govind		Chandra	Francis	Irfan

## Explanations:

1.

The following common explanation, we get "Asus-Francis".

Hence, option A is correct.

2.

The following common explanation, we get "Govind-Oppo".

Hence, option B is correct.

3.

The following common explanation, we get "Only three persons".

Hence, option B is correct.

4.

The following common explanation, we get "None of these, Vacant seat".

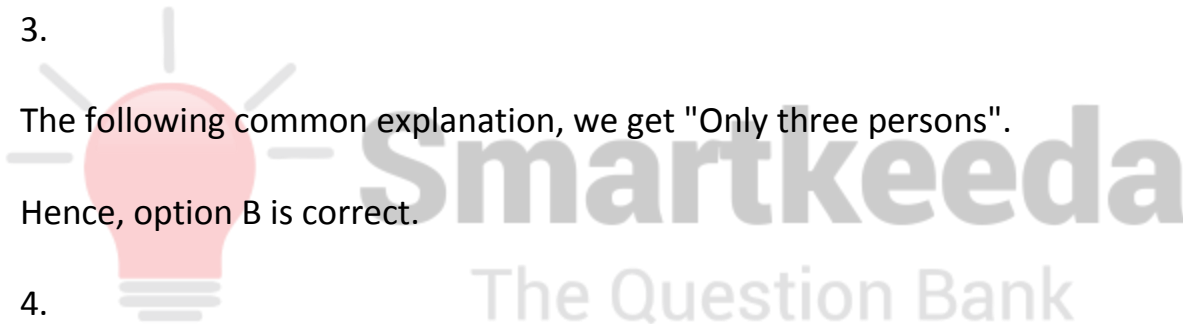
Second to the left of Francis is Govind & Govind faces vacant seat.

Hence, option E is correct.

5.

The following common explanation, we get Irfan sits opposite to the person who sits third to the left of Edwin.

Hence, option E is correct.





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