

# Arrangements

**Directions (1-5) Read the following passage and answer the given questions.**

Eight people are seated in a linear row facing north. Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row. Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul. Nisha is seated to the immediate left of Ekta. Shyam is seated to the left of Manju.



What is the position of Nisha with respect to Parul?

- (A) 2nd to the left
  - (B) 3rd to the right
  - (C) 2nd to the right
  - (D) 3rd to the left

**Directions (6-10) Read the following passage and answer the given questions.**

B1, B2, B3, B4, B5, B6, B7 and B8 are sitting in 2 rows i.e., Row 1 and Row 2. There are four people sitting in each row- In Row 1, B2, B4, B5 and B7 are sitting and are facing in the south direction. In Row 2, B1, B3, B6 and B8 are sitting and are facing in the north direction. B1 sits at the extreme end of the row. The one who is an immediate neighbor of B1 faces B4. Only one person sits between B4 and B2, who faces B3. B8 does not sit at the extreme end of the row. B7 sits second to the right of B5. B8 sits to the left of B6.



- (A) B2      (B) B1  
 (C) B7      (D) B8

- Q10** How many people are sitting between B7 and the one who faces B6?  
 (A) 0      (B) 1  
 (C) 2      (D) 3

**Directions (11-15) Read the following passage and answer the given questions.**

Ten people are seated in two parallel rows, containing five people in each row. They like three different types of cakes, viz. Sponge, Butter and Chiffon cakes, but not necessarily in the same order. In Row 1, A, B, C, D, E are seated facing the South. In Row 2, P, Q, R, S, T are seated facing the North. P, who likes Sponge cake, sits at one of the extreme ends. D, who likes Butter cake, faces S. A, who likes Chiffon cake, sits second to the left of D. Q, who likes neither Chiffon nor Sponge cake, sits third to the left of P. E, who sits at one of the extreme ends of the row, sits third to the right of C, who faces R. Only four people in the group like Chiffon cake. Neither C nor Q sits at any of the extreme ends of the row. Both C and R, who doesn't like Chiffon cake, like the same kind of cake. E likes neither Sponge nor Chiffon cake. Only one person among the five seated in row-2 likes Butter cake.

- Q11** Who is seated third to the right of A?

- (A) B      (B) E  
 (C) C      (D) D

- Q12** Who is facing Q?

- (A) C      (B) E  
 (C) B      (D) A

- Q13** How many people in the group like Sponge cake?

- (A) 1      (B) 2  
 (C) 3      (D) 4

- Q14** Which of the following statements is True based on the given information?

- (A) Number of people who like Chiffon cakes is one more than the number of people who like Sponge cakes.  
 (B) S likes Butter cakes.  
 (C) B, who faces Q, is seated at one of the extreme ends of the row.  
 (D) T likes Sponge cake.

- Q15** Three of the four are alike in a certain way and thus form a group. Find out the odd one out that doesn't belong to that group.  
 (A) A - T      (B) B - R  
 (C) C - Q      (D) D - S

**Directions (16-20) Read the following passage and answer the given questions.**

Ten persons are sitting in a circular manner equidistant from each other, all facing away from the centre.

- C and D sit together.
- I is second to right of H, who is not an immediate neighbour of D.
- Only one person sits between A and B, taken from the left side of A.
- J is sitting at the same distance from A as, F is sitting from H.
- G sits immediately to the right to J, who is sitting third to right of B.
- F is third to the left of E.

- Q16** Who is sitting sixth to the left of A?

- (A) F  
 (B) C  
 (C) Either option a or b  
 (D) None of these

- Q17** Find the Odd pair:

- (A) G, C      (B) H, D  
 (C) F, B      (D) I, E

- Q18** What is the position of I with respect to C?

- (A) Second to left  
 (B) Third to the right  
 (C) Fifth to the left



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(D) Second to the right



**Directions (21-25) Read the following passage and answer the given questions.**

Rahul, Sonia, Priyanka, Pawan, Kharge, Jairam, Kapil and Manish are attending a round table conference. Some of them are facing towards the centre and some of them are facing away from the centre. The following information is known about them-

- (i) Priyanka sits third to the right of Sonia.
  - (ii) Neighbours of Priyanka are not facing the same direction.
  - (iii) Kharge sits second to the left of Rahul.
  - (iv) Pawan is facing towards the centre and sits second to the left of Kapil.
  - (v) Rahul sits to the immediate left of Pawan but is not the neighbour of Kapil.
  - (vi) Neighbours of Jairam are facing the same direction, as in which Rahul is facing.
  - (vii) Sonia is the neighbour of Rahul and Manish.

- Q21** Who sits diametrically opposite to Sonia?  
(A) Manish                    (B) Priyanka

(C) Kapil

(D) Kharge

- Q22** Who sits second to the left of Kharge?

  - (A) Rahul
  - (B) Priyanka
  - (C) Either Rahul or Priyanka.
  - (D) Pawan

**Q23** How many persons are facing away from the centre?

  - (A) 6
  - (B) 5
  - (C) 4
  - (D) Cannot be determined






**Directions (26-30) Read the following passage and answer the given questions.**

The election commission of India held a round table conference on upcoming state elections. Six delegates from different political parties- Rahul, Yogi, Modi, Arvind, Thakre and Hemanta attended the conference. Each delegate is from a different state among Delhi, Punjab, Haryana, Uttar Pradesh, Madhya Pradesh, and Rajasthan. The number of languages that each delegate can speak is a distinct natural number from 1 to 6.

It is also known that -

- (1). The number of languages that the delegate from Haryana can speak is two more than the number of languages that the delegate sitting opposite him can speak.
  - (2). Yogi, who is from Delhi, is sitting opposite the delegate who can speak six languages.
  - (3). The delegate who can speak the lowest number of languages is from Rajasthan but is



not Thakre, while the delegate who can speak the highest number of languages is not Hemanta.

(4). The delegate who can speak exactly three languages is sitting two places to the left of the delegate from Rajasthan.

(5). Arvind, who is from Uttar Pradesh, can speak exactly 2 languages and is sitting to the immediate left of the delegate from Haryana.

(6). Hemanta, who is not from Madhya Pradesh, is sitting to the immediate left of Modi.

**Q26** Who can speak the highest number of languages?

- |           |            |
|-----------|------------|
| (A) Rahul | (B) Thakre |
| (C) Modi  | (D) Yogi   |

**Q27** Who speaks three languages?

- |                           |
|---------------------------|
| (A) Delegate from Haryana |
| (B) Delegate from Punjab  |

- (C) Delegate from Uttar Pradesh  
 (D) Delegate from Madhya Pradesh

**Q28** From which state is the delegate sitting opposite the delegate from Punjab?

- |                    |                   |
|--------------------|-------------------|
| (A) Madhya Pradesh | (B) Haryana       |
| (C) Rajasthan      | (D) Uttar Pradesh |

**Q29** How many languages can the delegate sitting to the left of the delegate from Rajasthan speak?

- |       |       |
|-------|-------|
| (A) 5 | (B) 4 |
| (C) 3 | (D) 2 |

**Q30** For any pair of delegates sitting opposite each other, what is the maximum difference between the number of languages that they speak?

- |       |       |
|-------|-------|
| (A) 5 | (B) 4 |
| (C) 3 | (D) 2 |



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# Answer Key

Q1 (B)  
Q2 (D)  
Q3 (C)  
Q4 (C)  
Q5 (B)  
Q6 (B)  
Q7 (A)  
Q8 (C)  
Q9 (D)  
Q10 (C)  
Q11 (A)  
Q12 (C)  
Q13 (C)  
Q14 (A)  
Q15 (A)

Q16 (B)  
Q17 (B)  
Q18 (B)  
Q19 (D)  
Q20 (B)  
Q21 (C)  
Q22 (C)  
Q23 (D)  
Q24 (B)  
Q25 (A)  
Q26 (B)  
Q27 (D)  
Q28 (C)  
Q29 (B)  
Q30 (B)



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# Hints & Solutions

## Q1. Text Solution:

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil		Radha	
--	------	--	-------	--

Case 2:

	Anil		Radha	
--	------	--	-------	--

Case 3:

Anil		Radha	
------	--	-------	--

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Case 2:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil		Shyam		Parul		Manju		Radha		Nisha		Ekta	
-------	------	--	-------	--	-------	--	-------	--	-------	--	-------	--	------	--

The number of people seated between Radha and Ekta is the same as the number of people seated between Anil and Parul.

## Q2. Text Solution:

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil		Radha	
--	------	--	-------	--

Case 2:

	Anil		Radha	
--	------	--	-------	--

Case 3:

Anil		Radha	
------	--	-------	--

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Case 2:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil		Shyam		Parul		Manju		Radha		Nisha		Ekta	
-------	------	--	-------	--	-------	--	-------	--	-------	--	-------	--	------	--

All the given statements are true.

## Q3. Text Solution:

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil		Radha	
--	------	--	-------	--

Case 2:

	Anil		Radha	
--	------	--	-------	--

Case 3:

Anil		Radha	
------	--	-------	--

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu. Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Case 2:

Jaggu	Anil		Parul		Radha	
-------	------	--	-------	--	-------	--

Nisha is seated to the immediate left of Ekta. So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil		Shyam		Parul		Manju		Radha		Nisha		Ekta	
-------	------	--	-------	--	-------	--	-------	--	-------	--	-------	--	------	--

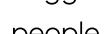
The number of people seated to the left of Shyam is the same as the number of people seated to the right of Radha.

## Q4. Text Solution:

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

	Anil		Radha	
--	------	--	-------	--



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Case 2:

Anil		Radha	
------	--	-------	--

Case 3:

Anil		Radha	
------	--	-------	--

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu.

Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil	Parul	Radha
-------	------	-------	-------

Case 2:

Jaggu	Anil	Parul	Radha	
-------	------	-------	-------	--

Nisha is seated to the immediate left of Ekta.

So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta
-------	------	-------	-------	-------	-------	-------	------

3 people are seated to the left of Parul.

#### Q5. Text Solution:

Anil is seated fourth to the left of Radha. Radha is not seated at the end of the row.

Case 1:

Anil		Radha	
------	--	-------	--

Case 2:

Anil		Radha	
------	--	-------	--

Case 3:

Anil		Radha	
------	--	-------	--

Jaggu is an immediate neighbour of Anil. Two people are seated between Parul and Jaggu.

Anil is seated to the left of Parul.

So, case 3 is invalid.

Case 1:

Jaggu	Anil	Parul	Radha
-------	------	-------	-------

Case 2:

Jaggu	Anil	Parul	Radha	
-------	------	-------	-------	--

Nisha is seated to the immediate left of Ekta.

So, case 1 is invalid.

Shyam is seated to the left of Manju.

Case 2 : This is the final arrangement.

Jaggu	Anil	Shyam	Parul	Manju	Radha	Nisha	Ekta
-------	------	-------	-------	-------	-------	-------	------

Nisha is seated third to the right of Parul.

#### Q6. Text Solution:

B1 sits at the extreme end of the row. The one who is an immediate neighbor of B1 faces B4. So, there are two cases possible i.e. Case 1 and Case 2.

Case 1:

B4		
↓	↓	↓
↓	↓	↓

B1		
↑	↑	↑
↑	↑	↑

Case 2:

	B4	
↓	↓	↓
↓	↓	↓

		B1
↑	↑	↑
↑	↑	↑

Only one person sits between B4 and B2, who faces B3.

Case 1:

B4		B2
↓	↓	↓
↓	↓	↓

B1		B3
↑	↑	↑
↑	↑	↑

Case 2:

B2		B4
↓	↓	↓
↓	↓	↓

B3		B1
↑	↑	↑
↑	↑	↑

B8 does not sit at the extreme end of the row.

B8 sits to the left of B6.

B7 sits second to the right of B5.

So, Case 2 will be invalid.

Case 1 - Final arrangement :



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B7	B4	B5	B2
↓	↓	↓	↓

B1	B8	B3	B6
↑	↑	↑	↑

B5 is second to the left of the one who faces B1.

#### Q7. Text Solution:

B2 is sitting at the extreme end of the row.

#### Q8. Text Solution:

B6 sits second to the right of the one who faces B4.

#### Q9. Text Solution:

B8 is not sitting at the extreme end of any row.

#### Q10. Text Solution:

Two people are sitting between B7 and the one who faces B6.

#### Q11. Text Solution:

E, who sits at one of the extreme ends of the row, sits third to the right of C, who faces R.

Neither C nor Q sits at any of the extreme ends of the row.

E likes neither Sponge nor Chiffon cake.

Row-1:

↓	↓	↓	↓	↓
E		C		
Butter				

Row-2:

			R
↑	↑	↑	↑

P, who likes Sponge cake, sits at one of the extreme ends.

Q, who likes neither Chiffon nor Sponge cake, sits third to the left of P.

Row-1:

↓	↓	↓	↓	↓
E		C		
Butter				

Row-2:

Q		R   P
Butter		Sponge
↑	↑	↑↑↑

D, who likes Butter cake, faces S.

A, who likes Chiffon cake, sits second to the left of D.

Row-1:

↓	↓	↓	↓	↓
E		D	C   A	
Butter		Butter		Chiffon

Row-2:

Q	S   R   P	
Butter		Sponge
↑	↑↑↑	↑

Therefore, only one person is left to be seated in respective rows.

Row-1:

↓	↓	↓	↓	↓
E	B   D	C   A		
Butter	Butter			Chiffon

Row-2:

T   Q	S   R   P	
Butter		Sponge
↑	↑↑↑	↑

Only one person among the five seated in row-2 likes Butter cake.

Both C and R, who doesn't like Chiffon cake, like the same type of cake.

Row-1:

↓	↓	↓	↓	↓
E	B   D	C	A	
Butter	Butter	Sponge		Chiffon

Row-2:



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T	Q	S	R	P
	Butter	Sponge	Sponge	
	↑↑	↑↑	↑	

Only four people in the group like Chiffon cake.

Row-1:

↓	↓	↓	↓	↓
E	B	D	C	A
Butter	Chiffon	Butter	Sponge	Chiffon

Row-2:

T	Q	S	R	P
Chiffon	Butter	Chiffon	Sponge	Sponge
↑	↑	↑	↑	↑

This is the final arrangement.

B is seated third to the right of A.

#### Q12. Text Solution:

B is facing Q.

#### Q13. Text Solution:

Three people like Sponge cake.

#### Q14. Text Solution:

Three people in the group like Sponge cake and four people in the group like Chiffon cake.

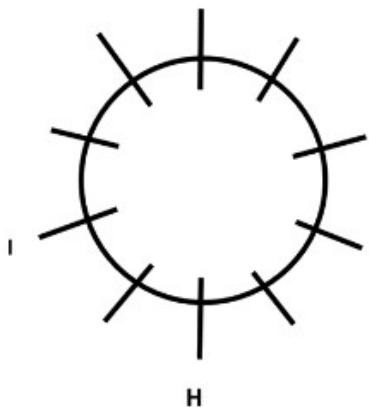
#### Q15. Text Solution:

Three people in the group like Sponge cake and four people in the group like Chiffon cake.

#### Q16. Text Solution:

All are facing outside. (Away from the centre)

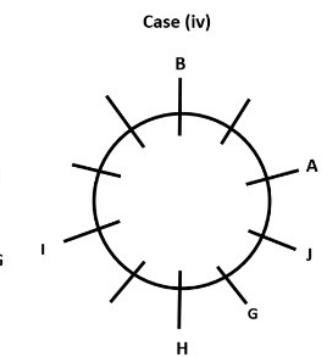
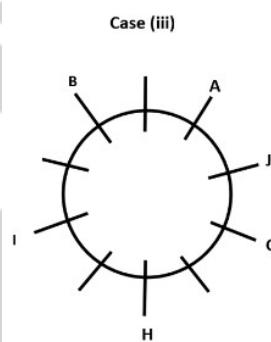
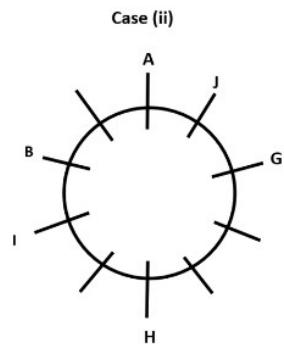
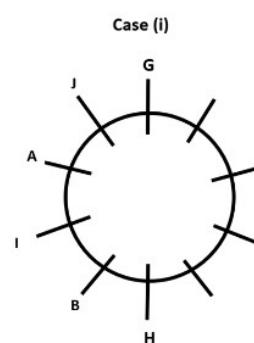
I is second to right of H, who is not an immediate neighbour of D.



G sits immediately to the right of J, who is sitting third to right of B.

Only one person sits between A and B, taken from the left side of A.

So, we get,

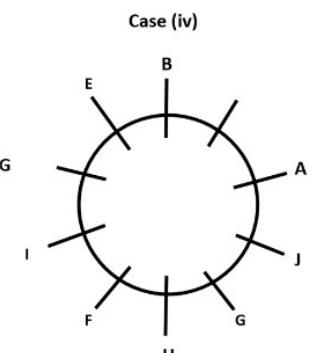
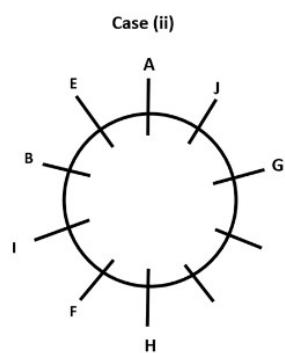


J is sitting at the same distance from A as, F is sitting from H.

Also, F is third to the left of E.

Hence, case (i) and case (iii) become invalid.

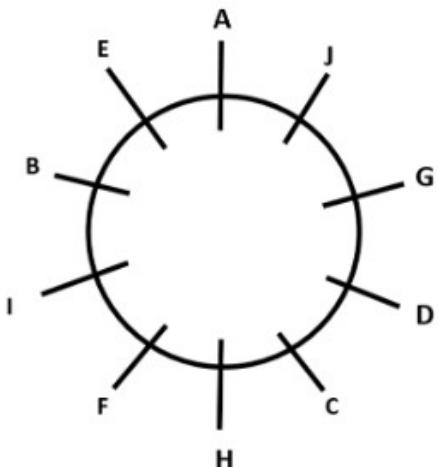
So, we get,



Since, C and D sit together, hence, case (iv) is not possible.

And, H is not immediate next to D, thus, we get the final arrangement as follows:





Hence, C is sitting sixth to the left of A.

#### **Q17. Text Solution:**

The second person is second to the right of the first person, in all except option b.

#### **Q18. Text Solution:**

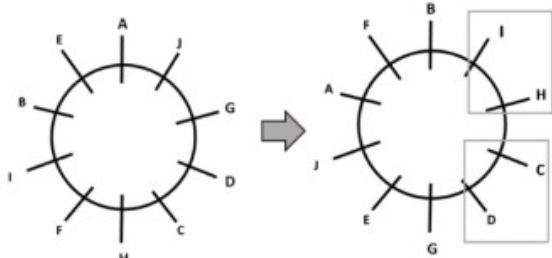
The position of I with respect to C is third to the right.

#### **Q19. Text Solution:**

None of the following statements is correct.

#### **Q20. Text Solution:**

Therefore, by the condition, we get

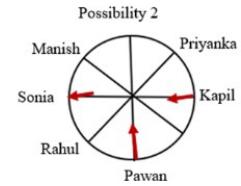


We get two such pairs - H and I, and, C and D.

#### **Q21. Text Solution:**

It is given that Pawan is facing the centre and sits second to the left of Kapil. We can say that Kapil is either facing the centre or away from the centre. But it is given that Rahul sits to the immediate left of Pawan but is not the neighbour of Kapil. Hence, we can say that Kapil is not facing away from the centre.

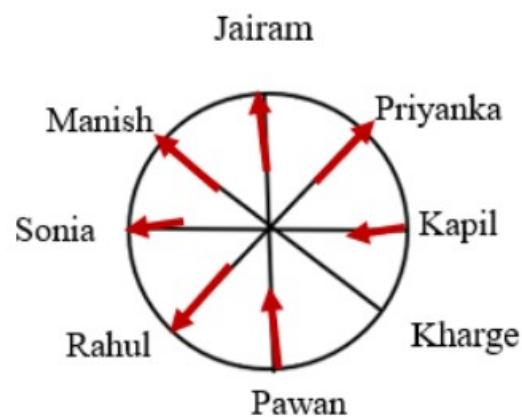
It is given that Sonia is the neighbour of Rahul and Manish, Priyanka sits third to the right of Sonia, hence we can say that Priyanka sits either to the immediate left of Kapil or to the immediate right of Kapil. Hence the possible arrangements are as follows



It is given that Kharge sits second to the left of Rahul. Hence, Possibility 1 is eliminated.

In possibility 2, Rahul is facing away from the centre, Kharge sits second to the left of Rahul and Jairam sits second to the right of Sonia. It is given that neighbours of Priyanka are facing different directions; hence Jairam is facing away from the centre. It is given that neighbours of Jairam are facing the same direction, which Rahul is facing, hence we can say that Manish and Priyanka are facing away from the centre, but we cannot find the direction in which Kharge is facing.

The final arrangement is as follows-



Kapil sits opposite to Sonia. Hence Option C

#### **Q22. Text Solution:**

Either Rahul or Priyanka sits second to the left of Kharge. Hence Option c.

#### **Q23. Text Solution:**

Either five or six persons facing away from the centre, since the direction of Kharge is not



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known. Hence Option d.

**Q24. Text Solution:**

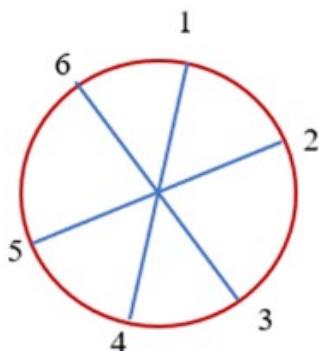
Kapil sits third to the right of Manish. Hence Option b.

**Q25. Text Solution:**

Four persons are sitting between Rahul and Kapil, when counting from the right side of Rahul. Hence Option a.

**Q26. Text Solution:**

Let the positions around the circular table be represented by the following diagram



Let the delegate from Haryana be at position 4. The delegate at position 1 must speak two fewer languages than him from condition (1).

From condition (5), Arvind is from UP must be at position 5 and speaks 2 languages.

From condition (4), the delegate from Rajasthan cannot be at position 3.

If the delegate from Rajasthan is at position 2, the delegate from Haryana must speak 3 languages. The delegate at position 1 must speak 1 language but from condition (3) the delegate from Rajasthan must speak 1 language, hence delegate from Rajasthan can not be at position 2.

If the delegate from Rajasthan is at position 1, the delegate at position 3 must speak 3 languages which is not possible as the delegate at position 4 must speak two languages more than the delegate at position 1.

So, the delegate from Rajasthan can only sit at position 6.

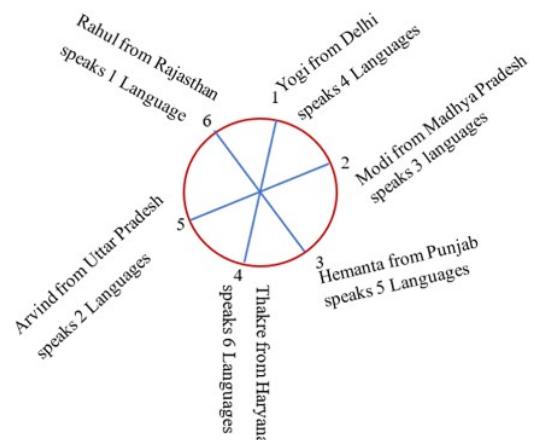
The delegate at position 2 must speak 3 languages. Since the delegate at position 1 cannot speak 1 or 2 or 3 languages (as they are spoken by the delegate from Rajasthan, Arvind and the delegate at position 2), the delegate at position 1 must speak 4 languages. The delegate from Haryana must speak 6 languages.

From condition (2), Yogi, from Delhi must be at position 1. The delegate at position 3 must speak 5 languages.

From condition (6), Hemanta is to the left of Modi. From condition (3), Hemanta cannot be from Haryana. Hence Hemanta must be at position 3 and Modi must be at position 2.

Since Hemanta is not from Madhya Pradesh, Hemanta must be from Punjab and Modi from Madhya Pradesh. From condition (3), Rahul must be from Rajasthan and Thakre from Haryana.

Hence, we can have the following arrangements.



Thakre speaks 6 languages.

Hence option B.

**Q27. Text Solution:**

Modi from Madhya Pradesh speaks 3 languages.

Hence Option d.

**Q28. Text Solution:**

Delegate from Rajasthan is sitting opposite to the delegate from Punjab.

Hence Option c.



**Q29. Text Solution:**

Delegate from Delhi is sitting to the left of the delegate from Rajasthan and can speak 4 languages

Hence Option b.

**Q30. Text Solution:**

Maximum difference is between delegates from Rajasthan and Punjab. Required difference =  $5 - 1 = 4$ .

Option b.



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