DeducePuzzles

Circular seating arrangement questions with answers

12 exam-shaped questions with full worked solutions.
For IBPS · SBI · RRB · SSC reasoning.

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The questions

Work them on paper first. Full solutions start after question 12 — the numbering matches.

QUESTION 1

5 people sit around a round table, all facing the centre.

1. Jaya sits 2nd to the left of Kiran (all facing the centre).
2. Rohan sits immediately to the left of Pooja (all facing the centre).
3. Exactly 1 person sits between Rohan and Geeta (the shorter way).

Can you work out who sits in each seat?

QUESTION 2

5 people sit around a round table, all facing the centre.

1. Arjun sits 2nd to the right of Tarun (all facing the centre).
2. Imran sits immediately to the left of Geeta (all facing the centre).
3. Tarun sits next to Chetan.

Can you work out who sits in each seat?

QUESTION 3

7 people sit around a round table, all facing the centre.

1. Nikhil sits immediately to the right of Rahul (all facing the centre).
2. Anjali sits 2nd to the right of Sneha (all facing the centre).
3. Nikhil sits 2nd to the left of Esha (all facing the centre).
4. Sneha sits 3rd to the right of Vikram (all facing the centre).
5. Yash sits next to Anjali.

Can you work out who sits in each seat?

QUESTION 4

7 people sit around a round table, all facing the centre.

1. Gauri sits next to Nikhil.
2. Nikhil sits immediately to the right of Arjun (all facing the centre).
3. Yash sits immediately to the left of Vikram (all facing the centre).
4. Exactly 1 person sits between Chetan and Yash (the shorter way).
5. Nikhil sits 2nd to the left of Yash (all facing the centre).
6. Vikram sits 2nd to the left of Neha (all facing the centre).

Can you work out who sits in each seat?

QUESTION 5

7 people sit around a round table, all facing the centre.

1. Esha sits 2nd to the right of Sneha (all facing the centre).
2. Bhavna sits 3rd to the left of Omkar (all facing the centre).
3. Esha sits immediately to the left of Manish (all facing the centre).
4. Karan sits 3rd to the right of Esha (all facing the centre).
5. Exactly 2 people sit between Divya and Esha (the shorter way).

Can you work out who sits in each seat?

QUESTION 6

7 people sit around a round table, all facing the centre.

1. Manish does NOT sit next to Sanjay.
2. Exactly 1 person sits between Chetan and Manish (the shorter way).
3. Exactly 2 people sit between Farhan and Sanjay (the shorter way).
4. Chetan sits next to Sanjay.
5. Aditi sits next to Priya.
6. Aditi sits 3rd to the left of Chetan (all facing the centre).
7. Exactly 1 person sits between Sanjay and Uma (the shorter way).

Can you work out who sits in each seat?

QUESTION 7

5 people sit around a round table, all facing the centre.

1. Exactly 1 person sits between Tanvi and Varun (the shorter way).
2. Exactly 1 person sits between Divya and Tanvi (the shorter way).
3. Varun sits immediately to the left of Divya (all facing the centre).
4. Exactly 1 person sits between Divya and Harsh (the shorter way).
5. Tanvi sits next to Zoya.

Can you work out who sits in each seat?

QUESTION 8

5 people sit around a round table, all facing the centre.

1. Exactly 1 person sits between Nikhil and Isha (the shorter way).
2. Exactly 1 person sits between Nikhil and Rohan (the shorter way).
3. Esha sits 2nd to the right of Isha (all facing the centre).
4. Imran sits 2nd to the left of Rohan (all facing the centre).

Can you work out who sits in each seat?

QUESTION 9

7 people sit around a round table, all facing the centre.

1. Tanvi sits 2nd to the right of Jaya (all facing the centre).
2. Bhavna sits 2nd to the left of Meera (all facing the centre).
3. Bhavna sits next to Tanvi.
4. Omkar sits 2nd to the left of Bhavna (all facing the centre).
5. Exactly 1 person sits between Jaya and Priya (the shorter way).
6. Karan sits next to Meera.

Can you work out who sits in each seat?

QUESTION 10

7 people sit around a round table, all facing the centre.

1. Exactly 2 people sit between Isha and Lata (the shorter way).
2. Manish sits 3rd to the left of Pooja (all facing the centre).
3. Isha sits next to Manish.
4. Exactly 1 person sits between Pooja and Arjun (the shorter way).
5. Pooja sits 3rd to the left of Rahul (all facing the centre).
6. Manish sits 2nd to the left of Harsh (all facing the centre).

Can you work out who sits in each seat?

QUESTION 11

7 people sit around a round table, all facing the centre.

1. Neha sits next to Anjali.
2. Anjali sits 3rd to the left of Isha (all facing the centre).
3. Vikram sits 2nd to the left of Anjali (all facing the centre).
4. Exactly 2 people sit between Neha and Chetan (the shorter way).
5. Varun sits immediately to the left of Anjali (all facing the centre).
6. Varun sits 3rd to the left of Nikhil (all facing the centre).

Can you work out who sits in each seat?

QUESTION 12

7 people sit around a round table, all facing the centre.

1. Manish does NOT sit next to Sneha.
2. Manish sits next to Tanvi.
3. Exactly 1 person sits between Manish and Jaya (the shorter way).
4. Sneha sits next to Jaya.
5. Harsh sits next to Jaya.
6. Farhan sits 2nd to the right of Jaya (all facing the centre).
7. Tanvi sits next to Vikram.

Can you work out who sits in each seat?

Answers and worked solutions

Each walkthrough is the engine's own elimination order, step for step — not a reconstruction written after the fact.

SOLUTION 1

1. Start: 24 distinct seatings (up to rotation) of 5 people around the table. Fix Geeta at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Jaya sits 2nd to the left of Kiran (all facing the centre)." narrows it to 6 possibilities. Table (clockwise from Geeta): Geeta · _ · _ · _ · _
3. Clue 2 — "Rohan sits immediately to the left of Pooja (all facing the centre)." ⇒ Rohan → seat 4, Pooja → seat 3, Kiran → seat 5, Jaya → seat 2 (1 possibility left). Table (clockwise from Geeta): Geeta · Jaya · Pooja · Rohan · Kiran
4. Exactly one seating (up to rotation) survives every clue: Geeta, Jaya, Pooja, Rohan, Kiran clockwise.

SOLUTION 2

1. Start: 24 distinct seatings (up to rotation) of 5 people around the table. Fix Arjun at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Arjun sits 2nd to the right of Tarun (all facing the centre)." ⇒ Tarun → seat 3 (6 possibilities left). Table (clockwise from Arjun): Arjun · _ · Tarun · _ · _
3. Clue 2 — "Imran sits immediately to the left of Geeta (all facing the centre)." ⇒ Imran → seat 5, Chetan → seat 2, Geeta → seat 4 (1 possibility left). Table (clockwise from Arjun): Arjun · Chetan · Tarun · Geeta · Imran
4. Exactly one seating (up to rotation) survives every clue: Arjun, Chetan, Tarun, Geeta, Imran clockwise.

SOLUTION 3

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Anjali at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Nikhil sits immediately to the right of Rahul (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Anjali): Anjali · _ · _ · _ · _ · _ · _
3. Clue 2 — "Anjali sits 2nd to the right of Sneha (all facing the centre)." ⇒ Sneha → seat 3 (18 possibilities left). Table (clockwise from Anjali): Anjali · _ · Sneha · _ · _ · _ · _
4. Clue 3 — "Nikhil sits 2nd to the left of Esha (all facing the centre)." narrows it to 4 possibilities. Table (clockwise from Anjali): Anjali · _ · Sneha · _ · _ · _ · _
5. Clue 4 — "Sneha sits 3rd to the right of Vikram (all facing the centre)." ⇒ Yash → seat 7, Nikhil → seat 4, Esha → seat 2, Vikram → seat 6, Rahul → seat 5 (1 possibility left). Table (clockwise from Anjali): Anjali · Esha · Sneha · Nikhil · Rahul · Vikram · Yash
6. Exactly one seating (up to rotation) survives every clue: Anjali, Esha, Sneha, Nikhil, Rahul, Vikram, Yash clockwise.

SOLUTION 4

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Arjun at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 2 — "Nikhil sits immediately to the right of Arjun (all facing the centre)." ⇒ Nikhil → seat 7 (120 possibilities left). Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · Nikhil
3. Clue 3 — "Yash sits immediately to the left of Vikram (all facing the centre)." narrows it to 24 possibilities. Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · Nikhil
4. Clue 5 — "Nikhil sits 2nd to the left of Yash (all facing the centre)." ⇒ Yash → seat 5, Vikram → seat 4 (6 possibilities left). Table (clockwise from Arjun): Arjun · _ · _ · Vikram · Yash · _ · Nikhil
5. Clue 6 — "Vikram sits 2nd to the left of Neha (all facing the centre)." ⇒ Neha → seat 2 (2 possibilities left). Table (clockwise from Arjun): Arjun · Neha · _ · Vikram · Yash · _ · Nikhil
6. Clue 4 — "Exactly 1 person sits between Chetan and Yash (the shorter way)." ⇒ Gauri → seat 6, Chetan → seat 3 (1 possibility left). Table (clockwise from Arjun): Arjun · Neha · Chetan · Vikram · Yash · Gauri · Nikhil
7. Exactly one seating (up to rotation) survives every clue: Arjun, Neha, Chetan, Vikram, Yash, Gauri, Nikhil clockwise.

SOLUTION 5

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Bhavna at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Esha sits 2nd to the right of Sneha (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
3. Clue 2 — "Bhavna sits 3rd to the left of Omkar (all facing the centre)." ⇒ Omkar → seat 5 (18 possibilities left). Table (clockwise from Bhavna): Bhavna · _ · _ · _ · Omkar · _ · _
4. Clue 3 — "Esha sits immediately to the left of Manish (all facing the centre)." narrows it to 4 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · Omkar · _ · _
5. Clue 4 — "Karan sits 3rd to the right of Esha (all facing the centre)." ⇒ Karan → seat 4, Manish → seat 6, Divya → seat 3, Esha → seat 7, Sneha → seat 2 (1 possibility left). Table (clockwise from Bhavna): Bhavna · Sneha · Divya · Karan · Omkar · Manish · Esha
6. Exactly one seating (up to rotation) survives every clue: Bhavna, Sneha, Divya, Karan, Omkar, Manish, Esha clockwise.

SOLUTION 6

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Aditi at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 6 — "Aditi sits 3rd to the left of Chetan (all facing the centre)." ⇒ Chetan → seat 5 (120 possibilities left). Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
3. Clue 2 — "Exactly 1 person sits between Chetan and Manish (the shorter way)." narrows it to 48 possibilities. Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
4. Clue 3 — "Exactly 2 people sit between Farhan and Sanjay (the shorter way)." narrows it to 16 possibilities. Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
5. Clue 7 — "Exactly 1 person sits between Sanjay and Uma (the shorter way)." narrows it to 9 possibilities. Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
6. Clue 4 — "Chetan sits next to Sanjay." narrows it to 5 possibilities. Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
7. Clue 5 — "Aditi sits next to Priya." narrows it to 3 possibilities. Table (clockwise from Aditi): Aditi · _ · _ · _ · Chetan · _ · _
8. Clue 1 — "Manish does NOT sit next to Sanjay." ⇒ Manish → seat 3, Farhan → seat 2, Sanjay → seat 6, Uma → seat 4, Priya → seat 7 (1 possibility left). Table (clockwise from Aditi): Aditi · Farhan · Manish · Uma · Chetan · Sanjay · Priya
9. Exactly one seating (up to rotation) survives every clue: Aditi, Farhan, Manish, Uma, Chetan, Sanjay, Priya clockwise.

SOLUTION 7

1. Start: 24 distinct seatings (up to rotation) of 5 people around the table. Fix Divya at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 3 — "Varun sits immediately to the left of Divya (all facing the centre)." ⇒ Varun → seat 2 (6 possibilities left). Table (clockwise from Divya): Divya · Varun · _ · _ · _
3. Clue 1 — "Exactly 1 person sits between Tanvi and Varun (the shorter way)." narrows it to 4 possibilities. Table (clockwise from Divya): Divya · Varun · _ · _ · _
4. Clue 2 — "Exactly 1 person sits between Divya and Tanvi (the shorter way)." ⇒ Tanvi → seat 4 (2 possibilities left). Table (clockwise from Divya): Divya · Varun · _ · Tanvi · _
5. Clue 4 — "Exactly 1 person sits between Divya and Harsh (the shorter way)." ⇒ Zoya → seat 5, Harsh → seat 3 (1 possibility left). Table (clockwise from Divya): Divya · Varun · Harsh · Tanvi · Zoya
6. Exactly one seating (up to rotation) survives every clue: Divya, Varun, Harsh, Tanvi, Zoya clockwise.

SOLUTION 8

1. Start: 24 distinct seatings (up to rotation) of 5 people around the table. Fix Esha at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 3 — "Esha sits 2nd to the right of Isha (all facing the centre)." ⇒ Isha → seat 3 (6 possibilities left). Table (clockwise from Esha): Esha · _ · Isha · _ · _
3. Clue 4 — "Imran sits 2nd to the left of Rohan (all facing the centre)." narrows it to 2 possibilities. Table (clockwise from Esha): Esha · _ · Isha · _ · _
4. Clue 1 — "Exactly 1 person sits between Nikhil and Isha (the shorter way)." ⇒ Imran → seat 4, Nikhil → seat 5, Rohan → seat 2 (1 possibility left). Table (clockwise from Esha): Esha · Rohan · Isha · Imran · Nikhil
5. Exactly one seating (up to rotation) survives every clue: Esha, Rohan, Isha, Imran, Nikhil clockwise.

SOLUTION 9

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Bhavna at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 1 — "Tanvi sits 2nd to the right of Jaya (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · _ · _
3. Clue 2 — "Bhavna sits 2nd to the left of Meera (all facing the centre)." ⇒ Meera → seat 6 (24 possibilities left). Table (clockwise from Bhavna): Bhavna · _ · _ · _ · _ · Meera · _
4. Clue 4 — "Omkar sits 2nd to the left of Bhavna (all facing the centre)." ⇒ Omkar → seat 3 (6 possibilities left). Table (clockwise from Bhavna): Bhavna · _ · Omkar · _ · _ · Meera · _
5. Clue 5 — "Exactly 1 person sits between Jaya and Priya (the shorter way)." narrows it to 2 possibilities. Table (clockwise from Bhavna): Bhavna · _ · Omkar · _ · _ · Meera · _
6. Clue 3 — "Bhavna sits next to Tanvi." ⇒ Jaya → seat 2, Karan → seat 5, Priya → seat 4, Tanvi → seat 7 (1 possibility left). Table (clockwise from Bhavna): Bhavna · Jaya · Omkar · Priya · Karan · Meera · Tanvi
7. Exactly one seating (up to rotation) survives every clue: Bhavna, Jaya, Omkar, Priya, Karan, Meera, Tanvi clockwise.

SOLUTION 10

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Arjun at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 2 — "Manish sits 3rd to the left of Pooja (all facing the centre)." narrows it to 120 possibilities. Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · _
3. Clue 5 — "Pooja sits 3rd to the left of Rahul (all facing the centre)." narrows it to 24 possibilities. Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · _
4. Clue 6 — "Manish sits 2nd to the left of Harsh (all facing the centre)." narrows it to 6 possibilities. Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · _
5. Clue 1 — "Exactly 2 people sit between Isha and Lata (the shorter way)." narrows it to 4 possibilities. Table (clockwise from Arjun): Arjun · _ · _ · _ · _ · _ · _
6. Clue 4 — "Exactly 1 person sits between Pooja and Arjun (the shorter way)." ⇒ Pooja → seat 3, Harsh → seat 4, Manish → seat 6, Rahul → seat 7 (2 possibilities left). Table (clockwise from Arjun): Arjun · _ · Pooja · Harsh · _ · Manish · Rahul
7. Clue 3 — "Isha sits next to Manish." ⇒ Isha → seat 5, Lata → seat 2 (1 possibility left). Table (clockwise from Arjun): Arjun · Lata · Pooja · Harsh · Isha · Manish · Rahul
8. Exactly one seating (up to rotation) survives every clue: Arjun, Lata, Pooja, Harsh, Isha, Manish, Rahul clockwise.

SOLUTION 11

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Anjali at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 2 — "Anjali sits 3rd to the left of Isha (all facing the centre)." ⇒ Isha → seat 5 (120 possibilities left). Table (clockwise from Anjali): Anjali · _ · _ · _ · Isha · _ · _
3. Clue 3 — "Vikram sits 2nd to the left of Anjali (all facing the centre)." ⇒ Vikram → seat 3 (24 possibilities left). Table (clockwise from Anjali): Anjali · _ · Vikram · _ · Isha · _ · _
4. Clue 5 — "Varun sits immediately to the left of Anjali (all facing the centre)." ⇒ Varun → seat 2 (6 possibilities left). Table (clockwise from Anjali): Anjali · Varun · Vikram · _ · Isha · _ · _
5. Clue 6 — "Varun sits 3rd to the left of Nikhil (all facing the centre)." ⇒ Nikhil → seat 6 (2 possibilities left). Table (clockwise from Anjali): Anjali · Varun · Vikram · _ · Isha · Nikhil · _
6. Clue 1 — "Neha sits next to Anjali." ⇒ Neha → seat 7, Chetan → seat 4 (1 possibility left). Table (clockwise from Anjali): Anjali · Varun · Vikram · Chetan · Isha · Nikhil · Neha
7. Exactly one seating (up to rotation) survives every clue: Anjali, Varun, Vikram, Chetan, Isha, Nikhil, Neha clockwise.

SOLUTION 12

1. Start: 720 distinct seatings (up to rotation) of 7 people around the table. Fix Farhan at seat 1 and count clockwise — only rotations of the same seating differ.
2. Clue 6 — "Farhan sits 2nd to the right of Jaya (all facing the centre)." ⇒ Jaya → seat 3 (120 possibilities left). Table (clockwise from Farhan): Farhan · _ · Jaya · _ · _ · _ · _
3. Clue 3 — "Exactly 1 person sits between Manish and Jaya (the shorter way)." ⇒ Manish → seat 5 (24 possibilities left). Table (clockwise from Farhan): Farhan · _ · Jaya · _ · Manish · _ · _
4. Clue 2 — "Manish sits next to Tanvi." narrows it to 12 possibilities. Table (clockwise from Farhan): Farhan · _ · Jaya · _ · Manish · _ · _
5. Clue 4 — "Sneha sits next to Jaya." narrows it to 6 possibilities. Table (clockwise from Farhan): Farhan · _ · Jaya · _ · Manish · _ · _
6. Clue 5 — "Harsh sits next to Jaya." ⇒ Tanvi → seat 6, Vikram → seat 7 (2 possibilities left). Table (clockwise from Farhan): Farhan · _ · Jaya · _ · Manish · Tanvi · Vikram
7. Clue 1 — "Manish does NOT sit next to Sneha." ⇒ Harsh → seat 4, Sneha → seat 2 (1 possibility left). Table (clockwise from Farhan): Farhan · Sneha · Jaya · Harsh · Manish · Tanvi · Vikram
8. Exactly one seating (up to rotation) survives every clue: Farhan, Sneha, Jaya, Harsh, Manish, Tanvi, Vikram clockwise.

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