25. Ans: [a]

From figures (i) and (ii), we conclude that the numbers 1, 4, 3 and 5 lie adjacent to the number 6. Clearly, the number 2 lies opposite 6 and conversely 6 lies opposite 2.

26. Ans: [c]

The number 2 is common to both the figures. We assume the parallelepiped in fig. (ii) to be rotated so that 2 appears at the same position as in fig. (i) i.e. on the RHS face and the numbers 6 and 3 move to the faces hidden behind the numbers 1 and 5 respectively [in fig. (i)]. Then, the combined figure will have 1 opposite 6 and 5 opposite 3. Thus, when 3 will be on the top, then 5 will appear at the bottom.

27. Ans: [a]

If 1 is adjacent to 2, 3 and 5, then either 4 or 6 lies opposite to 1. So, the numbers 4 and 6 cannot lie opposite to each other. Hence, 4 necessarily lies adjacent to 6.

28. Ans: [b]

Since the total number of dots on opposite faces is always 7, therefore, 1 dot appears opposite 6 dots, 2 dots appear opposite 5 dots and 3 dots appear opposite 4 dots.

29. Ans: [b]

If 1 is opposite to 5 and 2 is opposite to 3, then 4 definitely lies opposite to 6. Therefore, 2 cannot lie opposite to any of the two numbers - 4 or 6. Hence, 2 necessarily lies adjacent to both 4 and 6.

30. Ans: [d]

From positions X and Y we conclude that 1, 5, 6 and 3 lie adjacent to 4. Therefore, 2 must lie opposite 4. From positions Y and Z we conclude that 4, 3, 2 and 5 lie adjacent to 6. Therefore, 1 must lie opposite 6. Thus, 2 lies opposite 4, 1 lies opposite 6 and consequently 5 lies opposite 3.

Since 3 lies opposite 5 (as analysed above), it follows that 1, 4, 6 and 2 lie adjacent to 5. Out of these four numbers, the hidden numbers adjacent to 5 in position X are 6 and 2 and the hidden numbers adjacent to 5 in position Z are 1 and 4. Clearly, there is no number common.

REASONING ABILITY

SESSION – 12

SUDOKU – I

1.

3	**6**	**1**	**2**	**4**	5
2	4	**5**	3	6	**1**
4	2	3	1	**5**	**6**
5	1	6	**4**	**3**	2
6	3	**2**	**5**	1	4
1	**5**	4	6	**2**	3

2.

3	**4**	2	6	**1**	5
5	**6**	1	**2**	3	4
2	5	**4**	**3**	**2**	1
4	**1**	3	**5**	4	**6**
6	3	5	**1**	**6**	2
1	2	6	**4**	5	**3**

3.

5	**1**	6	2	**4**	3
4	3	**2**	1	**6**	**5**
1	**2**	**3**	**4**	5	6
6	4	**5**	3	**1**	**2**
2	**6**	**1**	5	3	4
3	5	**4**	6	2	1

4.

7	**4**	1	5	**9**	6	**2**	3	8
8	**9**	3	2	**1**	**7**	4	**6**	**5**
2	5	6	4	**8**	3	1	9	7
6	7	4	**9**	**5**	8	**3**	**2**	**1**
1	**3**	5	7	4	2	6	**8**	9
9	**8**	**2**	6	**3**	**1**	5	7	4
3	2	9	1	**7**	5	8	4	6
4	**1**	8	**3**	**6**	9	7	**5**	**2**
5	6	**7**	8	**2**	4	9	**1**	**3**

5.

2	**1**	**3**	5	**4**	**9**	**7**	**8**	6
9	7	8	3	2	6	1	5	**4**
5	**4**	6	8	**7**	**1**	**9**	**2**	3
1	2	4	**6**	5	3	8	**9**	7
6	8	**7**	**9**	1	4	**5**	3	2
3	9	**5**	7	8	2	4	**6**	1
4	**6**	1	2	9	**5**	3	7	**8**
8	3	9	**1**	6	7	2	**4**	5
7	5	2	4	**3**	**8**	**6**	**1**	9

6.

8	**7**	**5**	9	3	1	**4**	**2**	**6**
9	6	**2**	8	7	4	**3**	5	1
1	**3**	4	6	**5**	2	8	7	9
2	4	6	1	**8**	5	9	3	**7**
3	5	9	2	6	**7**	**1**	**8**	4
7	1	8	3	**4**	9	**2**	**6**	5
6	**2**	7	**4**	**9**	3	**5**	1	8
4	**8**	3	5	1	6	7	9	2
5	**9**	**1**	**7**	**2**	**8**	6	**4**	3

7.

1	**2**	5	4	7	9	6	3	8
3	**8**	9	5	6	**1**	**2**	**4**	7
4	7	**6**	**2**	**8**	3	**1**	5	9
7	9	4	1	**3**	2	5	8	**6**
8	3	1	**6**	5	7	4	9	2
6	5	2	**9**	4	**8**	**3**	7	**1**
2	**4**	7	**3**	9	6	8	1	**5**
5	1	**8**	**7**	**2**	4	9	6	**3**
9	6	**3**	8	**1**	**5**	7	2	4

REASONING ABILITY

SESSION – 13

SUDOKU – II

1.

7	**2**	1	**3**	**5**	4	6	9	8
8	4	**3**	**7**	**6**	9	2	1	**5**
5	9	6	2	1	**8**	**3**	**4**	7
4	6	**2**	8	7	**5**	9	**3**	1
1	**3**	7	**4**	9	**2**	5	**8**	6
9	**8**	5	**1**	3	6	**7**	2	**4**
3	**1**	**9**	**5**	8	7	4	6	**2**
6	7	4	9	**2**	**1**	**8**	5	3
2	5	8	6	**4**	**3**	1	**7**	**9**

2.

9	2	8	**3**	**1**	4	7	5	6
3	**6**	1	7	8	5	**2**	**9**	**4**
4	**5**	7	**6**	9	**2**	1	3	8
6	8	9	1	**7**	3	4	2	**5**
2	7	5	4	**6**	8	3	**1**	9
1	**4**	**3**	5	2	**9**	**6**	8	7
8	1	**6**	9	**3**	7	5	4	2
5	3	2	8	**4**	6	**9**	7	**1**
7	9	4	2	**5**	1	**8**	**6**	3

3.

3	2	6	**8**	5	4	7	9	**1**
8	7	**5**	3	9	1	6	**4**	**2**
1	**4**	**9**	7	6	2	3	**5**	8
7	**9**	**1**	2	8	**6**	5	3	4
2	6	4	1	3	**5**	8	**7**	9
5	**3**	8	4	7	**9**	**2**	1	6
4	1	7	**6**	2	**3**	**9**	8	5
6	5	3	9	**1**	8	4	**2**	7
9	8	**2**	5	**4**	7	**1**	6	**3**

4.

7	9	**1**	2	6	3	4	5	**8**
6	5	**3**	1	8	**4**	2	**7**	9
4	8	2	9	**5**	**7**	3	6	**1**
5	1	7	6	**2**	**8**	9	3	4
3	2	**4**	7	1	9	**6**	8	**5**
8	**6**	9	**4**	3	5	**7**	1	2
9	**4**	5	**3**	7	**1**	8	**2**	6
1	7	6	**8**	9	2	**5**	4	**3**
2	3	8	**5**	**4**	6	1	9	7

5.

2	6	3	7	9	1	**5**	**8**	4
1	5	**8**	6	**3**	4	7	**9**	2
7	**4**	9	8	**2**	5	3	**1**	6
9	**3**	1	**4**	**6**	7	8	2	5
4	7	**2**	9	5	8	1	6	**3**
5	8	**6**	2	1	3	9	4	**7**
3	1	4	**5**	8	6	2	7	9
8	**2**	**7**	3	4	9	6	5	1
6	9	5	**1**	7	2	4	3	8

6.

2	**5**	8	4	**7**	3	**6**	9	1
3	**4**	1	8	**6**	9	2	7	5
7	6	9	**1**	2	5	**8**	**3**	4
6	9	**7**	5	**8**	1	3	4	**2**
5	2	3	7	**9**	**4**	1	8	6
1	8	4	6	3	2	**9**	5	**7**
9	7	5	**3**	1	6	4	2	8
8	1	**2**	9	4	7	5	**6**	3
4	3	**6**	2	5	8	7	**1**	9

7.

6	**3**	7	**5**	1	9	2	4	8
8	2	4	**7**	**6**	3	9	1	**5**
9	1	5	2	**8**	4	**7**	3	**6**
2	**4**	**8**	6	5	**1**	3	7	9
7	6	**9**	3	2	**8**	**1**	**5**	4
1	5	3	9	**4**	7	**8**	6	2
5	**7**	2	1	9	6	4	**8**	3
3	8	6	**4**	**7**	**2**	5	**9**	1
4	9	1	8	3	5	6	**2**	7