Week2_OLT5(Assessment)(LR)_CSE_Immersion_2025

Directions (Q1 to Q2): Study the following information carefully and answer the questions given below:

'A $ B' means 'A is father of B'

'A # B' means 'A is wife of B'

'A @ B' means 'A is brother of B'

'A % B' means 'A is daughter of B'

Q1. **P @ R $ J # T indicates what relationship between P and J?**

A) J is sister of P B) J is nephew of P C) J is niece of P
D) Cannot be determined E) None of these
[Level-2; Accenture, Wipro, Infosys]

Answer: C)
Explanation: P is brother of R, R is father of J and J is wife of T Since J is wife, so is a female, so she is niece of her father's brother.

Q2. **The expression "P # O @ G % F" indicates which of the following relationship?**
A) O is father of F B) G is brother-in-law of P C) P is sister of F
D) F is mother-in-law of P E) Cannot be determined
[Level-2; Accenture, Wipro, Infosys]

Answer: E)
Explanation: P is wife of O, O is brother of G, so P is sister-in-law of G, G is daughter of F, so P must be daughter-in-law of F – but gender of F not known, and G sister-in-law of P (as G being a female).

Q3. I am facing east. I turn 100° in the clockwise direction and then 145° in the anticlockwise direction. Which direction am I facing now?

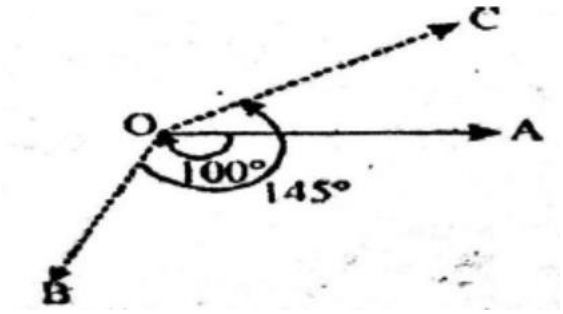
(a) East (b) North-east (c) North (d) South-west

[Level-1; Accenture, Wipro, Chetu]

Answer: B

Solution:

As shown in figure, the man initially faces towards east i.e., in the direction OA. On moving 100° clockwise, he faces in the direction OB. On further moving 145° anti-clockwise, he faces the direction OC. Clearly, OC makes an angle of (145° -100°) i.e. 45° with OA and so, the man faces in the direction North-east.



Q4. A man is facing north-west. He turns 90° in the clockwise direction, then 180° in the anticlockwise direction and then another 90° in the same direction. Which direction is he facing now?

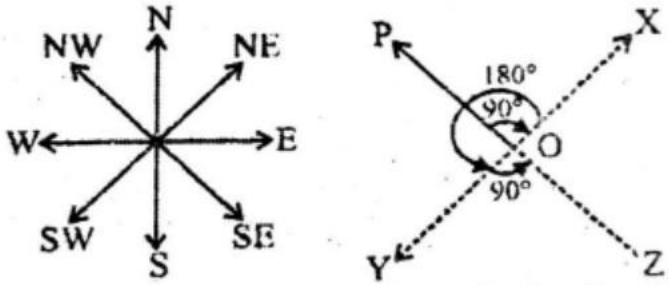
(a) South (b) South-west (c) West (d) South-east

[Level-1; Accenture, Wipro, Chetu]

Answer: D

Solution:

As shown in figure, the man initially faces in the direction OP. On moving 90° clockwise, lie faces in the direction OX. On farther moving 1801 anticlockwise, he faces in the direction OY. Finally, on moving 90° anticlockwise, he faces in the direction OZ, which is South-east.



Q5. There are 25 students in a class and all of them are sitting in a row to do yoga. Meena is 11th from the top and Sneha is 6th from the bottom. Two students are sitting between Ananya and Reena. What is the position of Reena from the top.

A. 12th B. 13th C. 16th D. Can't be determined E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: D

Solution:

From the above information, we cannot be sure about the position of Reena, as we don't have enough information about the position of Ananya and Reena. Hence, the correct answer is option D.

Q6. How many such pairs of Numbers are there in the 5947680213, each of which has as many numbers between them in the number, as they have in the numeric series?

A. Four B. Five C. More than five D. None E. None of these

[Level-2; Accenture, Wipro, infosys]

Answer: C

Q7. Direction: Study the following question carefully and choose the right answer.
A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered – from 0 to 4 and that Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'SCALE'.

Matrix - I

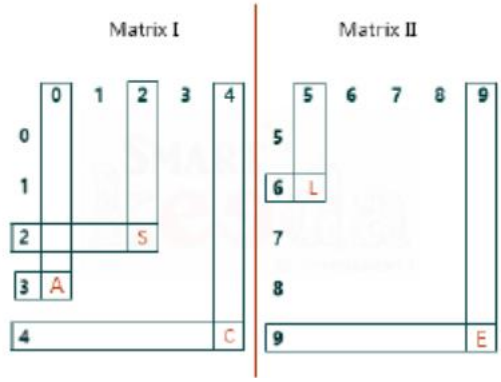
	0	1	2	3	4
0	P	A	C	R	Z
1	C	S	Z	P	A
2	Z	P	S	C	S
3	A	C	R	Z	P
4	S	Z	P	A	C

Matrix - II

	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

A. 11, 31, 43, 85, 55 **B.** 22, 44, 30, 65, 99
C. 40, 02, 03, 96, 77 **D.** 24, 13, 14, 57, 66
[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: B
Solution:



Hence, the option B is correct.

Q8. Direction: Study the following question carefully and choose the right answer.
A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered – from 0 to 4 and that Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 14, etc. and M can be represented by 56, 68, etc. Similarly, you have to identify the set for the word 'AMPLE'.

Matrix - I

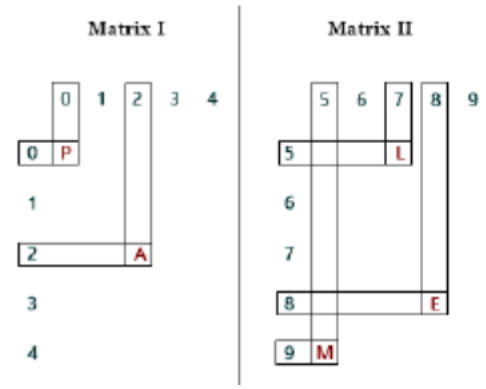
	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

Matrix - II

	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

A. 01, 56, 34, 78, 89 **B.** 14, 68, 21, 97, 99
C. 22, 95, 00, 57, 88 **D.** 31, 86, 33, 69, 77
[Level-1; Accenture, Wipro, Infosys, Chetu]

Answer: C
Solution:



Hence, the option C is correct.

Q9. The reflection of a wall clock in a mirror shows the time as 3 hours 40 minutes. What is the actual time?
(A) 8 hours 30 minutes (B) 8 hours 15 minutes (C) 8 hours 45 minutes
(D) 9 hours 20 minutes (E) 8 hours 20 minutes
[Level-1; Topic-Clock; Accenture, Wipro, TCS]

Answer: E
Solution:
Mirror Image Interpretation — Given mirrored time, determine actual time.

Q10. If the seconds hand moves by 240°, then by how many degrees does the minute hand move in the same time?
(A) 1° (B) 2° (C) 3° (D) 4° (E) 5°
[Level-1; Topic-Clock; Accenture, Wipro, TCS]

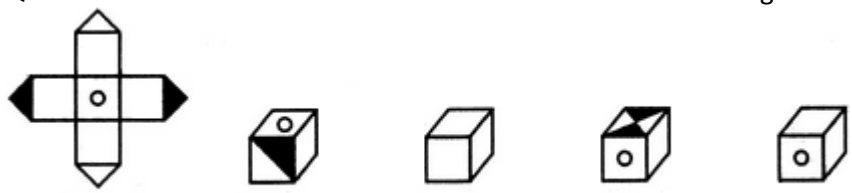
Answer: D
Solution:
Angle Conversion — Convert seconds hand movement to equivalent minute hand movement.

Q11. Choose the box that is similar to the box formed from the given sheet of paper (X).

A. 1 and 3 only
B. 2 and 4 only
C. 3 and 4 only
D. 1 and 4 only
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

Answer: A
Solutions:
The fig. (X) is similar to Form I. So, when the sheet shown in fig. (X) is folded to form a box (cuboid), then the two rectangular-shaded faces lie opposite to each other, two rectangular white faces lie opposite to each other and the two square shaped faces (one shaded and one white) lie opposite to each other. Clearly, the cuboids shown in figures (2) and (4) cannot be formed as in each of the two cuboids the two shaded rectangular faces appear adjacent to each other. So, only the cuboids in figures (1) and (3) can be formed.

Q12. Choose the box that is similar to the box formed from the given sheet of paper (X).



A. 1 only
B. 2 only
C. 3 only
D. 4 only
[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]

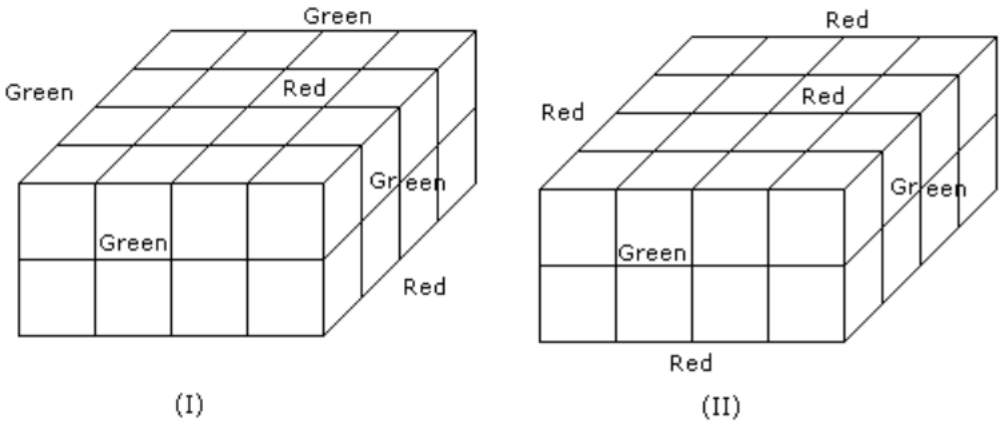
Answer: D
Solutions:
The fig. (X) is similar to the **Form VI**. So, when the cube is formed by folding the sheet shown in fig. (X), then  is one of the faces of the cube and this face lies opposite to the face bearing a circle. Also, one of the blank faces lies opposite to another blank face and yet another blank face lies opposite to the fourth blank face. Thus, out of the four blank faces, no three faces can appear adjacent to each other.

Clearly, the cube in fig. (1) cannot be formed since there is no face of the type  , the cube in fig. (2) cannot be formed since it shows three blank faces adjacent to each other and the cube in fig. (3) cannot be formed since the face  cannot appear adjacent to the face bearing the circle. Hence, only the cube in fig. (4) can be formed.

Directions (Q13 to Q14)
A cube is cut in two equal parts along a plane parallel to one of its faces. One piece is then coloured red on the two larger faces and green on the remaining, while the other is coloured green on two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of same size and mixed up.

Q13. How many cubes have only one coloured face each?
A. 32 B. 8 C. 16 D. 0
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

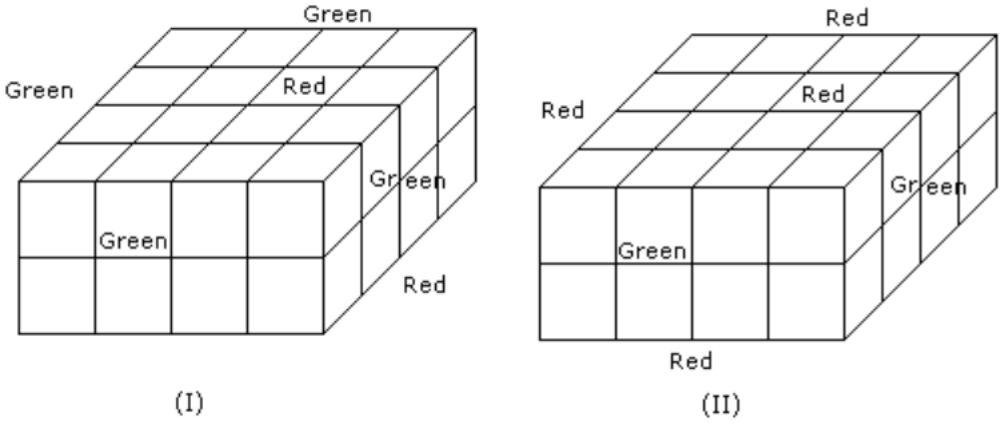
Answer: C
Solution:



8 from (I) and 8 from (II), Therefore 8 from each.

Q14. What is the number of cubes with at least one green face each?
A. 36 B. 32 C. 38 D. 48
[Level-1; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: C
Solution:



24 from (I) and 14 from (II)

Q15. **Pointing to a person, Arun said to Sarika, "His mother the only daughter of your father." How is Sarika related to that person?**
A) Aunt B) Daughter C) Mother-in-law
D) Mother E) Sister
[Level-2; Accenture, Wipro, Infosys]

Answer: D)

Explanation: Sarika‘s father‘s only daughter means Sarika herself, so Sarika is mother to that person (pointed to by His)