GLA UNIVERSITY
Recognized by UGC Under Section 2(f) & 12B Status
Accredited with A+ Grade by NAAC
Mathura | Greater Noida

Summer Immersion Placement Program
SIPP 2025

Week1_OLT1 (LR)_CSE_Immersion_2025

Directions (Q1 to Q2): Study the following information carefully to answer the questions that follow:

A is the father of B, and C is the mother of A. E is the sister of F, whose daughter is G. S, the husband of C, is the grandfather of G. P is the father of E and brother of R. S has only two children, both of opposite sex.

Q1. What is the relation between F and S?

A) F is the daughter of S   B) F is the sister of S   C) F is the son of S

D) F is the daughter-in-law of S   E) Either the A option or the D option

[Level-2; Accenture, Wipro, Infosys]

Answer: D

Explanation: C and S have 2 children; one is A who is male (A is father of B). since C is the grandfather of G so F should be wife of A to have the relation C is the grandfather of G. If F was daughter of C and s, so C would have been maternal grandfather of her daughter G.

Q2. What is the relation between E and B?

A) E is the sister of B   B) E is the brother of B   C) E is the aunt of B

D) E is the maternal grandmother of B   E) None of these

[Level-2; Accenture, Wipro, Infosys]

Answer: C

Explanation: E is the sister of F, and B is a child of F.

Q3. Q travels towards the East. M travels towards the North. S and T travel in opposite directions. T travels towards the right of Q. Which of the following is true?

(a) M and S travel in opposite directions.   (b) S travels towards the West.

(c) T travels towards the North.   (d) M and S travel in the same direction.

[Level-1; Accenture, Wipro, Chetu]

Answer: D

Solution:

We have been given that Q travels towards the East and M travels towards the North. Now, T travels towards the right of Q implies that T travels towards the South. Hence, S travels towards the North (because S and T Travel in opposite directions). Therefore, it is true that M and S travel in the same direction, i.e., North.

Q4. Of the five villages P, Q, R, S and T, situated close to each other, P is to the west of Q, R is to the south of P, T is to the north of Q, and S is to the east of T. Then, R is in which direction concerning S?
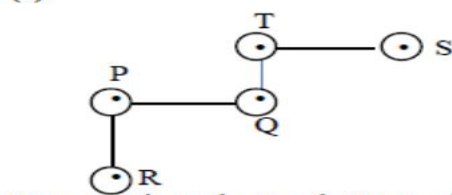
(a) North-West   (b) South-East   (c) South-West   (d) Data Inadequate

[Level-1; Accenture, Wipro, Chetu]

Answer: C

Solution:

(c)

Hence, R is to the South-West with respect to S.

Q5. In a shop, there were 4 dolls of different heights, M, N, O and P. 'P' is neither as tall as 'M' nor as short as 'O. 'N' is shorter than 'P' but taller than 'O. If Anvi wants to purchase the tallest doll, which one should she purchase?
(a) Either M or P   (b) Either P or N   (c) Only P   (d) Only M
[Level-2; Accenture, Wipro]

Answer: (d)
Explanation:
The correct order of dolls according to descending order of their heights is: M>P>N>O
Therefore, Anvi will purchase the doll M.

Q6. Ketan takes casual leave only on the first working day of every month. The office has weekly offs on Saturday and Sunday. In a month of 30 days, the first working day happened to be Tuesday. What will be the day for his next casual leave?
(a) Wednesday   (b) Thursday   (c) Friday   (d) Monday
[Level-2; Accenture, Wipro]
Q7. In a certain code language, 'round' is written as 'tall', 'tall' is written as 'red', 'red' is written as 'wood' is written as 'bread' and 'bread' is written as 'soil'. What do we eat for breakfast?
A) Tall   B) Wood   C) Bread   D) Soil   E) Red
[Level-1; Accenture, Wipro, Infosys, Chetu]
Answer: D
Explanation:
We eat 'bread' for breakfast.
Here, 'bread' is coded as 'soil'.
Hence, 'soil' is the correct alternative.

Q8. "SPECIAL" is written as "65" in a certain code language. What will "CONNECT" be coded as?
A) 70   B) 64   C) 32   D) 78   E) 74
[Level-3; Accenture, Wipro, Infosys, Chetu]

Answer: E
Explanation:
SPECIAL → Sum of the place value of each alphabet in alphabetical order
SPECIAL = 19+16+5+3+9+1+12 = 65
So, CONNECT = 3+15+14+14+5+3+20 = 74

Q9. What is the angle between the hour hand and the minute hand at 5:10 AM?

a) 355°   b) 105°   c) 195°   d) 95°

[Level-1; Topic-Clock; Accenture, Wipro, TCS]
Answer: D
Solution:

$$\text{Angle} = \theta = \left|\frac{60 \times hour - 11 \times minute}{2}\right|^{\circ}$$

And another angle $= (360 - \theta)^{\circ}$

$$\therefore \theta = \left|\frac{60 \times 5 - 11 \times 10}{2}\right|^{\circ}$$

$$= \left|\frac{300 - 110}{2}\right|^{\circ}$$

$$= \frac{190}{2}^{\circ}$$

$$= 95^{\circ}$$

And another angle $= (360 - \theta)^{\circ} = (360 - 95)^{\circ} = 265^{\circ}$

GLA UNIVERSITY
Accredited with A+ Grade by NAAC
Mathura | Greater Noida

Summer Immersion
Placement Program
SIPP 2025

Q10. What is the angle between the hour hand and the minute hand at 6:30 PM?

a) 325°   b) 330°   c) 345°   d) 315°

[Level-1; Topic-Clock; Accenture, Wipro, TCS]
Answer: C
Solution:
And another angle = $(360 - \theta)°$

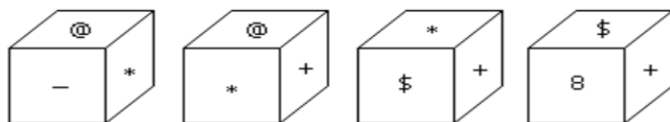$$\therefore \theta = \left|\frac{60 \times 6 - 11 \times 30}{2}\right|°$$

$$= \left|\frac{360 - 330}{2}\right|°$$

$$= \frac{30}{2}°$$

$$= 15°$$

And another angle = $(360 - \theta)° = (360 - 15)° = \mathbf{345°}$

Q11. Which symbol will be on the face opposite to the face with the symbol *?

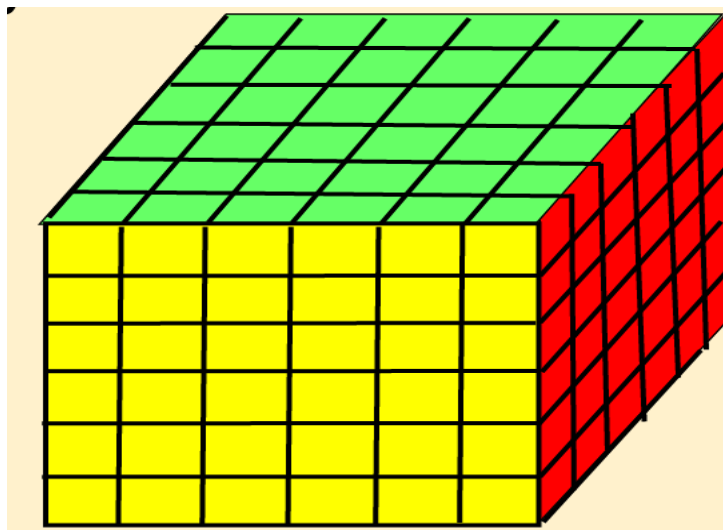A. @   B. $ C. 8   D. +

[Level-1; Topic-Dice; Wipro, Accenture, Capgemini]
Answer: C
Solution: The symbols of the adjacent faces to the face with symbol * are @, -, + and $. Hence, the required symbol is 8.

Directions (Q12 to Q13)

All the opposite faces of a big cube are coloured with yellow, red and green colours. After that is cut into 216 identical small cubes.

Q12. How many small cubes are there whose 2 faces are coloured?
A. 128   B. 64   C. 16   D. 48
[Level-2; Topic-Cube; Wipro, Accenture, Cognizant]

Answer: D
Solution:
n = 6/1 = 6 No. of small cubes = n^3 = 216 n = 6 two face painted cube = (n-2)12= (6-2)12 = 48
Q13. How many small cubes are there whose only one face is coloured?
A. 128   B. 64   C. 16   D. 96
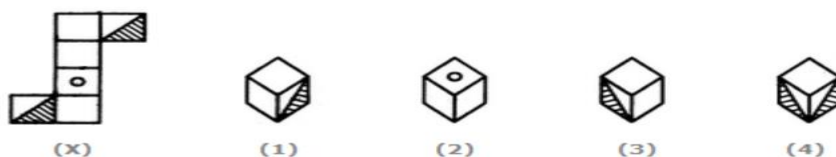**[Level-2; Topic-Cube; Wipro, Accenture, Cognizant]**

Answer: D
Solution:
n = 6/1 = 6 No. of small cubes = n^3 = 216 so, n = 6
One face painted cube =6 $(n-2)^2$= 6$(6-2)^2$ = 96

Q14. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?

A. 1 and 3 only
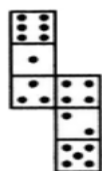
B. 1 and 4 only

C. 2 and 4 only

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

Answer: A
Solution:
The fig. (X) is similar to Form II. So, when the sheet shown in Fig. (X) is folded to form a cube, then the two half-shaded faces lie opposite to each other, the face bearing a circle lies opposite to one of the two blank faces, and the two remaining blank faces lie opposite to each other. Therefore, the cubes shown in Fig. 4, which have the two half-shaded faces adjacent to each other, cannot be formed by folding the sheet shown in Fig. (X). Also, the cube shown in fig. 2 has a face bearing a circle adjacent to two blank faces. This is not possible since there is one blank face opposite the circle and one blank face opposite the third blank face. Hence, only the cubes in figures (1) and (3) can be formed.
Q15. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?

A. 2   B. 4   C. 5   D. 6

[Level-2; Topic-Dice; Wipro, Accenture, Capgemini]
Answer: DSolution:

The given figure is similar to Form V. Therefore, when this figure is folded to form a cube, then the face bearing six dots will lie opposite the face bearing three dots.