UNIFIED CYBER OLYMPIAD

Solutions for Sample Questions
class : 3

Mental Ability
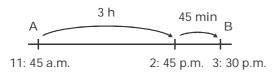
1. **(C)** $123456 \div 8 = 15432$

   P = 1, Q = 5, R = 4, S = 3 and T = 2

2. **(A)** '1' s in the ones place $\rightarrow$

   1, 11, 21, 31, 41, 51, 61, 71, 81, 91, 101, 111

   '1's in the tens place $\rightarrow$

   10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 110, 111

   '1' s in hundreds place $\rightarrow$

   100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111

   $\therefore$ 12 + 12 + 12 = 36

   Hence, **36** '1' s are used altogether.

3. **(B)** 4 girls + 2 boys share 204 stickers

   $\Rightarrow$ 6 children share 204 stickers

   $\therefore$ Each children had 204 $\div$ 6 = 34 stickers

   $\therefore$ 3 girls + 5 boys will have 34 $\times$ 8

   = **272 stickers**

4. **(A)**

   A ——— 3 h ——— 45 min B

   11: 45 a.m.   2: 45 p.m.   3: 30 p.m.

   He would arrive at **3: 30 p.m.**

5. **(A)** Cost of 2 bags = 2 $\times$ ₹ 356 = ₹ 712

   $$\begin{array}{r} {}^{6}\cancel{7}\,{}^{10}\cancel{1}\,{}^{1}2 \\ -\ 5\ 4\ 8 \\ \hline 1\ 6\ 4 \end{array}$$

   Hence, money required for Hasini is ₹ **164**.

Reasoning

6. **(D)**

   The square and circle alternate positions.

   The shape on the outside is rotated 90° clockwise each time. The triangle is always inside the circle.

7. **(C)** In the given circle, the number follow a pattern in anticlockwise direction.
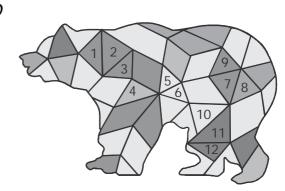
   $4 \xrightarrow{+2} 6 \xrightarrow{+3} 9 \xrightarrow{+4} 13 \xrightarrow{+5} 18 \xrightarrow{+6} \boxed{24}$

8. **(D)** Except option (D), all the other figures are same which are rotated.

9. **(A)** The shapes, elements and the letters in the given grid can be grouped based on the number of lines and dots as,

   M, ▱, : : $\Rightarrow$ 1, 2, 8

   ⊔, △, ★★★ $\Rightarrow$ 4, 3, 6

   R, ⬠, ◆◆◆ $\Rightarrow$ 9, 7, 5

   Option (A) is the correct classification.

10. **(D)**

Computers

11. **(D)** When Numeric keypad is OFF, key 7 acts as **home key** in standard computer keyboard.

12. **(B)** In MS-Paint, using **pencil tool** we can draw free hand figures.

13. **(D)** **Home key** is used to move the cursor to the beginning of a page.

14. **(B)** In MS-Paint, **fill with colour tool** will fill the entire picture with a colour.

15. **(D)** **'Shift' key** is useful to type the symbols on the upper half of key.

English

16. **(B)** Antonym of Rare is **common**.

17. **(A)**

My	favourite	colour	is	red
R	P	T	S	Q

∴ The required arrangement is **R, P, T, S, Q**

18. **(C)** In the given sentence attained means **achieved**.

19. **(C)** Guidance

20. **(D)** The meaningful word formed is **FRIEND**.