

# UNIFIED CYBER OLYMPIAD - UC305 (LEVEL - 1)

## Solutions for class: 3

### Mental Ability

- 1. **(C)** F, A and N are made of three lines. So, required fraction is  $\frac{3}{8}$ .
- 2. **(A)** Given, difference = 2230 Smaller number = 890 Greater number = Difference + Smaller number = 2230 + 890 = **3120**
- 3. **(B)** Capacity of the jug = 3 /250 m/ = 3250 m/
  Capacity of each glass = 950 m/
  Number of glasses = 3
  Capacity of 3 glasses = (950 × 3) m/ = 2850 m/
  Amount of water left in the jug after filling 3 glasses = (3250 2850) m/ = **400 m/**
- 4. **(B)**  $\frac{2}{3} = \frac{6}{9}$ ;  $\frac{4}{10} = \frac{2}{5}$ ;  $\frac{9}{12} = \frac{3}{4}$ ;  $\frac{3}{6} = \frac{1}{2}$
- 5. **(C)** The possible values of A and B are 6 and 4 respectively.

$$\begin{array}{ccc}
A \times B &=& 2 & B \\
6 \times 4 &=& 2 & 4
\end{array}$$

A = 6 and B = 4

: Sum of A and B = 6 + 4 = 10

6. **(D)** Time taken by the fastest athlete = 2 h 14 min

Time taken by the slowest athlete = 3 h 27 min

Difference in their time

= 3 h 27 min – 2 h 14 min = 1 h 13 min

- : The fastest athlete is **1 h 13 min** faster than the slowest athlete.
- 7. **(B)** Since, three is a 'Buy 1 Get 1 Free' promotion

$$\frac{12}{2}$$
 = 6 sets

Amount Royal has to pay = ₹ 48 × 6 = ₹ **288** 

8. **(D)** Toy Train Teddy Bear 50

Total cost of toy train and Teddy bear = ₹ 155 + ₹ 50 = ₹ 205

Cost of teddy bear = ₹ (205 – 119) = ₹ **86** 

9. **(A)** Given, Mass of basket and fruits = 6 kg = 6000 q

Since, 1 kg = 1000 g.

Mass of basket = 1725 g

 $\therefore$  The mass of the fruits = (6000 – 1725) g

= 4275 g

= 4 kg 275 g

- 10. **(C)** The smallest 4-digit number = 1234
  The largest 3-digit number = 987
  Their sum = 1234 + 987 = **2221**
- 11. **(B)** In the given figure, only **rectangle** is a complete figure.
- 12. **(C)** 5 + 8 = 13 (pink and purple roses) 31 13 = 18 (**yellow roses**)

Hence, she bought pink, purple and **yellow** roses.

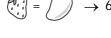
13. **(A)** 1st pattern: 3 circles  $\rightarrow$  1  $\times$  3 circles  $2^{nd}$  pattern: 6 circles  $\rightarrow$  2  $\times$  3 circles  $3^{rd}$  pattern: 9 circles  $\rightarrow$  3  $\times$  3 circles  $4^{th}$  pattern: 12 circles  $\rightarrow$  4  $\times$  3 circles The pattern shows the 3 times table.

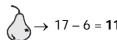
So,  $36 \div 3 = 12^{th} pattern$ .

14. **(D)** 6 ten rupee notes = 6 × ₹ 10 = ₹ 60 = **12** × ₹ 5

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### Reasoning

- The pattern is repeating  $R \rightarrow A \rightarrow C$ 16. **(B)**  $\rightarrow$   $\bigcirc$ . So the two ?'s should be replaced by and .
- 17. **(D)** Except in **option (D)**, in all the others, the triangle is in the largest rectangle, the shield is in the smaller rectangle and the other figure is in the second largest rectangle.
- 18. **(B)** The correct figure must be the same as the missing piece in the jigsaw puzzle.

By looking at the shape of the figures and then comparing their size, we see that figure in **option (B)** will complete the puzzle.

19. **(A)** 

RIF1 2 3 4 5

Meaningful word: FRUIT

.: Combination: 4, 2, 5, 3, 1

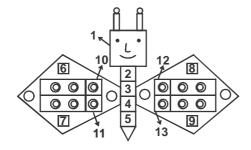
- 20. (D) All the flags are turned right and each have one line in it.
- 21. **(C)** In each figure,

Number on the 'head' = Sum of the numbers on the 'feet' ÷ 2

Hence, the missing number is 5.

- 22. (B) Of the given options, option (B) fits in the shaded part.
- Newspaper and book are to read, trumpet 23. (D) and Veena are musical instruments.

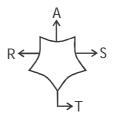
24. (B)



Hence, there are 13 squares.

- 25. In each stage the top left-hand line is (B) moving through half the length of one side clockwise.
- 26. **(D)** Except 11 (eleven) all the other numbers end with 'teen' i.e., sixteen, thirteen and fourteen.

27. **(D)** 



Therefore, the required code is **TSAR**.

28. (D)

- 29. Triangles turn to circles and vice versa, and (D) white figures turn to black and vice versa.
- 30. **(A)**  $\frac{3+13}{2} = 8$ ;  $\frac{6+18}{2} = \frac{24}{2} = 12 = A$ ;  $\frac{9+B}{2} = 16$  $\Rightarrow$  B = 32 – 9 = **23**

#### Computers

- 31. **(C)** Operating system is an interface between the software and hardware.
- 32. (A) Caps lock key is considered as a toggle
- Pick color tool is used to select the same 33. **(B)** color.
- 34. (B) Winzip is a **software** which is used to compress a file.
- **Internet** is required to connect different 35. (B) computers for communicating each other.
- 36. **(C)** There is **no effect on the size of the disk** when you send files into recycle bin.
- Backspace key erases the text that is on 37. **(A)** the left side of cursor.
- Start → turn off 38. (B) computer → turn off  $\rightarrow$  switch off UPS  $\rightarrow$  switch off power
- 39. (A) The taskbar moves to the top of the **screen** on executing the given steps.
- 40. **(C)** There are a total of **16 tools** in the tool box of Ms-paint.

- 42. **(D)** ALU performs **arithmetic operations** and comparisons.
- 43. **(C)** PC's at home uses single user OS whereas in hospitals and railway stations uses multiuser OS.
- 44. **(C) Ms-paint** is a software application used for editing digital pictures.
- 45. **(D)** Christopher Latham Sholes developed QWERTY keyboard.

#### **English**

- 46. **(D)** The word having a different sound of 'ch' is **ache**.
- 47. **(B)** The lady <u>talked</u> very <u>quietly</u> in the library.
- 48. **(A) Sensible**
- 49. (B) Calendar
- 50. **(C)** The meaningful word formed is **Giraffe**.

