## UNIFIED CYBER OLYMPIAD

## Solutions for Sample Questions class: 8

## Mental Ability

1. (C)

2. (A)

$$
\begin{aligned}
& 20142015 \times 20152014- \\
& 20142014 \times 20152015 \\
&=20142015 \times 20152014
\end{aligned} \quad-(20142015-1)(20152014+1)
$$

3. (A) $\frac{(856+167)^{2}+(856-167)^{2}}{856 \times 856+167 \times 167}$
$=\frac{2\left(856^{2}+167^{2}\right)}{856^{2}+167^{2}}=\mathbf{2}$
[since, $\left.(a+b)^{2}+(a-b)^{2}=2\left(a^{2}+b^{2}\right)\right]$
4. (C) No. of times a die is thrown $=24$

Probability for ' 4 ' to come up when a die is
thrown once $=\frac{1}{6}$
$\therefore$ If a die is thrown for 24 times the possibility for 4 to come up $=\frac{1}{6} \times 24$

$$
=4 \text { times }
$$

5. (B) $7 x - 4 \longdiv { 1 4 x ^ { 2 } + 1 3 x - 1 5 } ( 2 x + 3$


Therefore, -3 must be subtracted.

## Reasoning

6. (A) Thegiven series is repeating after every five shapes and the shading moves by one shape towards left. Hence, the missing shape is
7. (D) Count the number of lines in each figure.
 option (D) is the odd one out.
8. (D) In the given group, the figure in third column is obtained by subtracting thefigures in the first column from the second column figures.
Hence, the missing figure is option (D).
9. 

(A)

17111111171

10. (A) Linetype: A - Vertical; B - Horizontal; C-Diagonal
Square type: P - Small ; Q - Large;
R - medium
$\therefore$ The code for the last figure is AR.

## Computers

11. (D) Thelargest heading in HTML tag is $\mathbf{~} \mathbf{1}>$.
12. (C) The shortcut key to change the entered number into dateformat is Ctrl +Shift +3.
13. (D) BIOS is stored in ROM.
14. (B) <img> tag will display a picturein HTML.
15. (C) MS-Dos is a command-driven operating system.

## English

16. (C) 'A puzzling question' means riddle. The rhyming word of the riddleis middle.
17. (A) One who collects coins is known as Numismatist.
18. (B) Fatigue means weariness.
19. (B) Inevitable $\times$ Evitable
20. (B) Only a little water is left in the jug.
