## Class - VIII

Mental Ability
Which of thefollowing figures hasa line of symmetry?
(A)

(B)

(C)

(D)


What is the value of the given statement?
20142015 $\times 20152014$-20142014 $\times 20152015$
(A) 10000
(B) 0
(C) 2014
(D) 2015

Find the value of $\frac{(856+167)^{2}+(856-167)^{2}}{856 \times 856+167 \times 167}$.
(A) 2
(B) 1
(C) 856
(D) 167

A dieis thrown 24times. How manytimes do you expect the number ' 4 ' to comeup?
(A) 6 times
(B) 24 times
(C) 4 times
(D) 12 times

What must besubtracted from $14 x^{2}+13 x-15$ so that the resulting polynomial is exactly di visibleby $7 x$ -4?
(A) 3
(B) -3
(C) 5
(D) -5

## Class - VIII

What is the missing figure in thegiven series? O $\rightarrow \Delta 0 \square$ 1 $\triangle O$ $?>$
(A)
(B) $\triangle$
(C) O
(D) $\bigcirc$

Which set of figures is theodd oneout?
(A) $\times \Delta / \square *$
(B) $\&$
$\Delta \wedge \diamond$
(C) $]+H \geqslant>$
(D) $-\triangle$ $\square$

Which is themissing figurein thegiven group?

(A) $) \cdot 1$
(B)

(C)

(D)


U14 Find the mirror image of the given figure.

(A)

(B)

(C)

(D)


1110 Which pair of letters represent thel ast figure?

(A) $A R$
(B) CP
(C) BR
(D) AQ

What is the correct HTML tag for the largest heading?
(A) cheading>
(B) $46>$
(C) head>
(D) $\langle 1>$

What is theshortcut key to change theentered number into date format in MS-Excel 2010?
(A) $\mathrm{Ctrl}+\mathrm{Shift}+1$
(B) $\mathrm{Ctrl}+$ Shift +2
(C) $\mathrm{Ctrl}+\mathrm{Shift}+3$
(D) $\mathrm{Ctrl}+\mathrm{Shift}+4$

Wheredoes BIOS is stored?
(A) Floppy disk
(B) RAM
(C) Hard Disk
(D) ROM

Which tag is used to display a picturein HTML?
(A) <picture> (B) <img>
(C) <image>
(D) <srC>

What type of operating system is MS-Dos?
(A) Point and click
(B) User-friendly
(C) Command-driven
(D) Mac

## CLASS: VIII

## Class - VIII

Identify a rhyming word to a word which means 'a puzzling question'.
(A) doubt
(B) book
(C) middle
(D) query

Which of the following is a one-word substitution for "One who collects coins"?
(A) Numismatist
(B) Cartographer
(C) A postate
(D) Martyr

## What does the word 'FATIGUE' mean?

(A) Excitement
(B) Weariness
(C) Failure
(D) Satisfaction

Which of these words drops In' to give its antonym?
(A) Indulge
(B) Inevitable
(C) Infringe
(D) Insurance

## Which of theseis an INCORRECT sentence?

(A) You should have taken my advice.
(B) A few water is left in the jug.
(C) The show will be over by $2: 30$ p.m.
(D) Aastha brushes her teeth twice everyday.

## 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)

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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.
