Find the sum of $\frac{1}{2015}+\frac{2}{2015}+\frac{3}{2015}+\ldots . . . .+\frac{2014}{2015}$.
(A) 2014
(B) 1
(C) 1007
(D) 2015

U1I) In the given figure, $a: b=3: 5$ and $c: b=2: 1$. What is the measure of the largest angle?

(A) $110^{\circ}$
(B) $100^{\circ}$
(C) $80^{\circ}$
(D) $130^{\circ}$

Rishi is $x$ years old. Pooja is 3 years older than Rishi and 5 years older than Ashish. Find their total age.
(A) $3(x+1)$ years
(B) $(3 x+1)$ years
(C) $(x+10)$ years
(D) $2(x+8)$ years
11.4 Which of the following dotted linesis a lineof symmetry for the given figure?

(A) p
(B) q
(C) $r$
(D) s

III5 Priya sold two different bags for ₹ $\mathbf{1 2 0 e a c h}$. Shemade a profit of $\mathbf{2 5 \%}$ on the first bag but incurred a loss of $\mathbf{2 5 \%}$ on thesecond bag. How much washer overall profit or loss for the sale of the bags?
(A) Profit of ₹ 18
(B) Loss of ₹ 40
(C) Profit of ₹ 24
(D) Loss of ₹ 16

## Class - VII

Reasoning
Which figure replaces the question mark in second pair?

(A)

(B)

(C)

(D)


Which of thefollowing figureresembles thegiven paper when unfolded?

(A)

(B)

(C)

(D)

10.8 Which isthe missing part in the third figure?

(A)

(B)

(C)

(D)


In the following arrangement how many such digits arethere, each of which is immediatel y preceded by a letter and immediately followed by a symbol?
A 7*LP2NS 3 @ H K 2 P D $8 \Delta$
(A) 4
(B) 3
(C) 2
(D) 1

How many squares are therein thegiven figure?

(A) 11
(B) 13
(C) 14
(D) 15

## Class - VII

Computers
What do you mean by executing two or more programs si multaneously in a singleCPU?
(A) Multitasking
(B) Timesharing
(C) Multiprogramming
(D) Multiprocessing

Which of thefol lowing is an INVALID numeric variable in Q-basic?
(A) T24
(B) A
(C) M2
(D) 2B43

In banking, railway stations etc., which computers are used?
(A) Mini Computers
(B) Micro Computers
(C) Main Frames
(D) Super Computers

## Which of thefoll owing is used to built RAM?

(A) Semi-conductors
(B) VacuumTubes
(C) Super-conductors
(D) Transistors

## What is the output of given Q-basic program?

> Let $S=0$
> For $C=1$ to 10
> Let $S=S+C$
> Next C
> Print S
(A) The letter S is printed.
(B) The integers from 1 to 10 are printed.
(C) The sum of the integers from 1 to 10 is printed.
(D) An error message is displayed.

## Class - VII

English
Which part of the given sentence has a grammatical error in it?

We saw much interesting birds at the bird sanctuary. $\mathbf{P} \quad \mathbf{Q} \quad \mathbf{R} \quad \mathbf{S}$
(A) R
(B) P
(C) S
(D) Q

What does WRATH' mean?
(A) J udgment
(B) Opinion
(C) Sorrow
(D) Anger

IdentifytheMISSPELT word.
(A) Seperate
(B) Personnel
(C) Repetition
(D) License

## 019 What is themasculinegender for 'FILLY'?

(A) Cockeral
(B) Gander
(C) Drake
(D) Colt

Which of the following pair of words can replace the blanks?

Library is a good place to $\qquad$ because it is so $\qquad$ .
(A) read, open
(B) learn, intelligent
(C) study, quiet
(D) eat, serene

## UNIFIED CYBER OLYMPIAD

## Solutions for Sample Questions class: 7

## Mental Ability

1. 

(C) $\frac{1}{2015}+\frac{2}{2015}+\frac{3}{2015}+\ldots \ldots .+\frac{2014}{2015}$
$\Rightarrow \frac{1+2+3+4+\ldots \ldots \ldots \ldots+2014}{2015}$
$\Rightarrow \quad \frac{2014(2014+1)}{2 \times 2015}=\frac{2014}{2}=1007$
2. (B) Since $a: b=3: 5$, then for some number $x$, $a=3 x$ and $b=5 x$; and sincec $: b=2: 1$, then
$c=2 b=10 x$. Then, $3 x+5 x+10 x=180$
$\Rightarrow 18 x=180$
So, $x=10$ and $c=10 x=10(10)=100$
Hence, the largest angle is $\mathbf{1 0 0}^{\circ}$.
3. (B) Pooja $=(x+3)$ years

Ashish $=(x+3)-5$

$$
=(x-2) \text { years }
$$

Total age now $=x+(x+3)+(x-2)$

$$
=(3 x+1) \text { years }
$$

4. (A) ' $\mathbf{p}$ ' divides thegiven figure into two identical halves. So, it is a line of symmetry.
5. (D) ₹ $120=125 \%$
$25 \%$ profit $=\frac{120}{125} \times 25=` 24$
$25 \%$ loss $=\frac{120}{75} \times 25=₹ 40$
Overall loss =₹ $40-₹ 24=₹ 16$

## Reasoning

6. (B) The second figure in each pair is obtained by turning the big and the medium curves in the clockwise direction and the small curve in the anticlockwise direction by $90^{\circ}$.
7. 

(C)

8. (B) By combining the 3 parts (top and bottom left figures) weget, theright bottom corner figure.
9. (B)


Hence required digits are 3.
10. (D)

$1,2,3,4,5,6,7,8,9,10,11 \rightarrow 11$
$8+9+10+11,12+3+4+8+9+10+11$
$+5+6+13$
$12+3+8+9+10+11$,
$8+9+10+11+6+13 \rightarrow 4$
$\therefore$ Thereare 15 squares in thegiven figure.

## Computers

11. (A) Executing two or more programs simultaneously in a single CPU is called multitasking.
12. (D) 2B43 is an invalid numeric variable.
13. (C) In railway stations and banks, mai nframes are used.
14. (A) RAM is built from semi-conductors.
15. (C) The output of Q-basic program will print sum of the integers from 1 to 10.

## English

16. (D)
$\frac{\text { Wesaw }}{\mathrm{P}} \frac{\text { many interesting }}{\mathbf{Q}} \frac{\text { birds at }}{\mathrm{R}} \frac{\text { the bird sanctuary }}{\mathrm{S}}$
17. (D) Wrath means anger.
18. (A) Separate is the correct spelling
19. (D) Masculinegender for filly is colt.
20. (C) Library is a good place to study because it is so quiet.
