General Instructions:-
This Question paper is divided into four sections.
Section-A, Contain 10 Questions each carrying 1 mark.
Section-B, Contain 10 Questions each carrying 2 marks.
Section-C, Contain 10 Questions each carrying 3 marks.
Section-D, Contain 5 Questions each carrying 4 marks.

## Section-A(Q. 1 to Q. 10 Write the correct answer )

Q1. Fill in the blank: $-13+\ldots \ldots .=-15$
a) 2
b) 3
c) -2
d) -3

Q2. For a non zero integer which of the following is not defined?
a) $a \div 0$
b) $0 \div a$
c) $a \div 1$
d) $1 \div a$

Q3 $\frac{2}{5} \times 5 \frac{1}{5}$ is equal to
a) $\frac{26}{25}$
b) $\frac{52}{25}$
c) $\frac{2}{5}$
d) 6

Q4 The value of $0.3 \times 0.3 \times 0.3$ is
a)2.7
b)3
c). 027
d) 27

Q5. Mean of the first two prime numbers is
a) 2.5
b)3
c) 5
d)2.7

Q6. Form the equation "One third of a number plus 5 is 8 "
a) $\frac{1}{3} \times 5 x=8$
b) $\frac{5}{3}+x=8$
c) $x+\frac{1}{3}+5=8$
d) $\frac{1}{3} x+5=8$

Q7. The range of $6,7,5,3,4,2,1$ is
a) 3
b) 6
c) 5
d) 4

Q8. A triangle has $\qquad$ Elements
a)3
b)4
c) 5
d) 6

Q9. An angle is greater than $45^{\circ}$. Is it complementary angle
a) Greater than $45^{\circ}$
b)equal to $45^{\circ}$
c) less than $45^{\circ}$
d)all of these.

Q10. $\triangle \mathrm{CAB} \cong E D F$ then which of the following is not true:
a) $A C=D E$
b) $A B=E F$
c) $\quad\llcorner A=L D$
d) $L C=L E$

Q 11. Find the product: $7 \times(50-2)$
Q 12. Multiply: $\quad 6 \frac{2}{5} \times \frac{7}{9}$
Q 13. Write the decimal 200.03 in expanded form
Q 14. What is the probability that a student chosen at random out of 3 girls and 4 boys is a boy.
Q 15. Solve: $\quad 5 t+25=10$
Q 16. Add 4 to eight times a number, you get 60 , find the number.
Q 17. The difference in the measures of two complementary angles is $12^{\circ}$. Find the measure of the angles.

Q 18. Identify the pair of alternative interior angles in the given fig.


Q 19. One of the acute angle of a right triangle is $58^{\circ}$. Find the other acute angle.
Q 20. If $\triangle P Q R \cong \triangle E F D$
i. Which side of $\triangle P Q R$ equal to $E D$ ?
ii. Which angle $\triangle P Q R$ equal to LE ?

## Section-C (Q. 21 to Q. 30 )

Q 21. In Fig $A D=D C$ and $A B=B C$


B
i. Is $\triangle \mathrm{ABD} \cong \triangle C B D$
ii. State the three parts of matching pairs you have used to answer (i)

Q 22. In the given figure can you use $A S A$ congruence rule and conclude that $\triangle A O C \cong \triangle B O D$


Q 23. In lengths of two side of a triangle are 12 cm and 15 cm . Between what two measures should the length of third side fall.

Q 24. Draw the rough sketch for the following.
(I) $\triangle \mathrm{ABC}$. BE is a median.
(II) $\triangle \mathrm{PQR}, \mathrm{PQ}$ is an altitude.

Q 25. Find $x$.


Q 26. In the fig: p II q Find the unknown angle.


Q 27. Sachin scored twice as many runs as rahul. Together their runs fell two short of a double century. How many runs did each one score?

Q 28. Find the mode and median of the data : $13,16,12,14,19,12,14,13,14$.
Q 29. The thickness of 24 sheets of paper is 4.32 mm . Find the thickness of one sheet.
Q 30. Fill in the blank :
(I) $\qquad$ $X(-12)=32$
(I) $\qquad$

$$
\div 48=-1
$$

## Section D (Q. No. 31 to 35)

Q 31. In Fig. $A B=A C$ and $A D$ is the bisector of $\angle B A C$
i. State three pairs of equal parts in $\triangle A D B$ and $\triangle A D C$
ii. Is $\triangle A D B \cong$ in $\triangle A D C$
iii. Is $<B=<C$


Q 32. A tree is broken at a height of 5 m from the ground and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree.

Q 33. Ravish owns a plot of rectangular shape. He has forced it with a wire of length 750 m . The length of the plot exceeds the breadth by 5 m . Find the length and breadth of the plot.

Q 34. The performance of a student in $1^{\text {st }}$ term and $2^{\text {nd }}$ term is given. Draw a double bar graph choosing appropriate scale.

| Subject | English | Hindi | Maths | Science | So. Science |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $1^{\text {st }}$ Term | 67 | 72 | 88 | 81 | 73 |
| $2^{\text {nd }}$ Term | 70 | 65 | 95 | 85 | 75 |

Q 35. Find :
i) $\quad 100.01 \times 1.1$
ii) $2.73 \div 1.3$

