DELHI PUBLIC SCHOOL JAMMU SESSION: 2019-20 Cycle Test- II ASSINGNMENT

CLASS-9th SUBJECT: MATHEMATICS

Very Short Answer Type

1.	The N	lumber 1	1.27in t	he form of p/o	q is
	a.	14/11			b. 14/9
	c.	14/13			d.14/15

The sides of a triangle are 12cm,16cm,and 20cm. Its area is
a. 48cm²
b. 96cm²

- c. 120cm² d. 160cm²
- 3. Coordinates of point are (0,6), then ordinate of the point is :-

a.	0	b6
C.	-6	d0 .

4. The Image of the point (2,5) in y-axis is ______.

5. Zeros of t^2 -2t are _____ and _____.

6. The perimeter of an isosceles triangle is 32cm. The ratio of the equal side to the base is 3:2, then area of triangle is _____.

7.	The value of $4\sqrt{(81)^{-2}}$ is	
8.	On Simplifying $(\sqrt{5} + \sqrt{7})^2$, we get	
	a. 12 b. √3	5

$\sqrt{5} + \sqrt{7}$	d 12+2 $\sqrt{35}$
$L, \sqrt{3} + \sqrt{7}$	u. 12+2 y 33

9. Evaluate (101)³.

10. Find the zero of polynomial 2-3x.

11. An exterior angle of a triangle is 115[°] and its two interior opposite angles are equal. Find the measure of each equal angle.

12. In a triangle ABC, AB=AC and $\angle A = 80^{\circ}$, Then find the measure of $\angle C$.

SHORT ANSWER TYPE QUESTIONS:-

- 1. Find four solutions for linear equations in two variables 2x-3y=-11.
- 2. If non parallel sides of a trapezium are equal. Prove that it is cyclic.
- 3. Two opposite angles of a parallelogram are $(3x-2)^{\circ}$ and $(50-x)^{\circ}$. Find the measure of each angle of parallelogram.
- 4. Prove that equal chords of a circle are equidistant from the centre.

SHORT ANSWER TYPE QUESTIONS:-

1. BO and CO are bisectors of the exterior angles B and C formed by producing sides AB and AC of triangle ABC intersect each other at Point O. Prove that $\angle BOC=90^{\circ}-1/2 \angle A$.



- 2. If two parallel lines are intersected by transversal then bisectors of interior angles forms a rectangle.
- 3. In triangle ABC , AM \perp BC and AN is the bisector of $\angle A$. If $\angle B=65^{\circ}$ and $\angle C=33^{\circ}$. Find $\angle MAN$.



- Draw the graphs of the linear equations 4x-3y+4=0 and 4x+3y-20=0.Find the area bounded by these lines and x-axis.
- 5. If two equal chords of a circle intersects within the circle , prove that the segment of one chord are equal to corresponding segments of other chord .
- 6. Numbers 50, 42, 35, 2x+10, 2x-8, 12, 11, 8 are written in descending order. If their median is 25, Find the value of x.

LONG ANSWER TYPE QUESTIONS :-

1. The marks scored by 750 students in an examination are given in the form of a frequency distribution table

MARKS	600-640	640-680	680-720	720-760	760-800	800-840	840-880
NO. OF STUDENTS	16	45	156	284	172	59	18

Draw a histogram and frequency polygon.

2. A,B,C and D are point on circle . AC and BD intersect at a point E such that \angle BEC=130° and \angle ECD=20°. Find \angle BAC.



3. If diagonals of a quadrilateral are equal and bisect each other at right angles , then it is a square.