VISWABHARATI - GUDIVADA RAPID FIRE ROUND TEST

WORK SHEET – 1

Chapters : Coordinate Geometry Tangents and Secants to a circle Basic Proportionality Theorem.

Class: X		Time: 1Hr
Subject: Mathematics		Marks: 25
Name	Class/Sec:	Roll No:

I. Answer the following Questions.

- 1. Name the type of quadrilateral formed by points (-1, -2) (1,0) (-1, 2) (-3, 0) and give reasons for your answers.
- 2. Find the area of the triangle formed by joining the midpoints of the sides of the triangle whose vertices are (0, -1) (2,1) and (0,3). Find the ratio of this area to the area of the given triangle.
- 3. A chord of circle of radius 12cm subtends an angle of 120^{0} at the centre. Find the area of the corresponding minor segment of the circle (Use $\pi = 3.14$ and $\sqrt{3} = 1.732$)
- 4. Prove that the parallelogram circumscribing a circle is a Rhombus.
- 5. Draw a circle of radius 6cm from a point 10cm away from its centre, construct the pair of tangents to the circle and measure their lengths. Verify by using pythogaras theorems.

II. Answer the questions:

- 6. a) Define a regular polygon 1M
 - b) State and prove basic proportionality theorem and mention its another name also 4M

 $5 \times 4 = 20$

5M