VISWABHARATI - GUDIVADA

WORK SHEET - 1

Chapters: Coordinate Geometry, Statistics

Class: X		Time: 75min
Subject: Mathematics		Marks: 30
Name	Class/Sec:	Roll No:
Answer the following Questions.		$15 \times 2 = 30$

1. Are the points (3,2) (-2, -3) and (2,3) form a triangle?

- 2. If the distance between two points (x,7) and (1,15) is 10. Then find 'x'.
- 3. If the centroid of the triangle whose vertices are (2,3) (x,y) (3,-2) is origin then find (x,y)
- 4. Find the coordinates of a point A. where AB is diameter of a point whose centre is (2,-3) and B is (1,4).
- 5. Find the area of a square whose vertices are (0,-1) (2,1), (0,3) and (-2, 1) taken inorder are as vertices.
- 6. If a = 8cm, b = 15cm and c = 17cm then find area of $\triangle ABC$ by using herion's formula.
- 7. If (1,2) (-1, b) (-3, 4) are collinear points then find the value of 'b'
- 8. The slope of line joining of two points is zero. Then where do the two points lie. Write the possibilities.
- 9. In which situations direct method, assumed mean method and step deviation method are we can choose to find mean of a grouped data.
- 10. Find mode of the following data

C.I.	0-20	20-40	40-60	60-80	80-100	100-120
f	10	35	52	61	38	29

11. Find grater then cumulative frequency distribution for the following less than cumulative distribution.

Age (in year)	Below 20	Below 30	Below 40	Below 50	Below 60	Below 70
No. of persons	15	23	42	55	58	60

- 12. What kind of graphs we can draw to represent median and mode.
- 13. Write the formula to find median of the grouped data and explain each term.
- 14. Write relation between mean median and mode. If mean and mode of a groped data are 16.5 and 17.5 then find median.
- 15. Which measure of central tendency you will use for the following situations.
 - i) to find average wage of a country
 - ii) the consumer item in greatest demand
 - iii) to compare performance of two students in studies.
 - iv) to find most popular game liked by people.