

**STD:IX**

**TEST-2**

**COORDINATE GEOMETRY**

- I. ANSWER THE FOLLOWING QUESTIONS: 10x2=20**
1. If A(10,11) and B(2,3) are the coordinates of end points of diameter of circle. Then find the centre of the circle.
  2. Find the coordinates of the point which divides the line segment joining the points (3,1) and (5,13) internally in the ratio 3:5
  3. Find the centroid of the triangle whose vertices are (2,-5) (5,11) and (9,9)
  4. If the mid-point (x,y) of the line joining (3,4) and (p,7) lies on  $2x+2y+1=0$ , then what will be the value of P?
  5. Prove that the diagonals of the parallelogram bisect each other?
  6. Find the centroid of the triangle whose vertices are (2,4) (-3,-7) and (7,2)
  7. If P(a/3, b/2) is the mid-point of the line segment joining A(-4,3) and B(-2,4) then (a,b) is
  8. If the centroid of a triangle is at (10,-1) and two vertices are (3,2) and (5,-11). Find the third vertex of a triangle.
  9. Write the distance formula
  10. Write the mid-point formula and centroid formula

**ALL THE BEST**