T1-Coordinate Geometry And Practical Geometry Model Question Paper III

9th Standard

	Sansand		
	Maths	Reg.No.:	
	I. Answer all the questions		
H	ne : 01:45:00 Hrs Part-A	Total Marks : 60 5 x 1 = 5	
1)	The point (x,0) where x < 0 lies on	3.41 3	
,	(a) ox (b) oy (c) OX' (d) OY'		
2)	The diagonal of a square formed by the points $(1,0)$ $(0,1)$ $(-1,0)$ and $(0,-1)$ is		
,	(a) 2 (b) 4 (c) $\sqrt{2}$ (d) 8		
3)	The distance between the points (0,8) and (0,-2) is		
σ,	(a) 6 (b) 100 (c) 36 (d) 10		
4)	The distance between the points (a, b) and (-a, -b) is		
.,	(a) 2a (b) 2b (c) 2a+2b (d) $2\sqrt{a^2+b^2}$		
E)	The point which is on y-axis with ordinate –5 is		
3)			
	(a) (0, -5) (b) (-5, 0) (c) (5, 0) (d) (0, 5)	5 x 1 = 5	
6)	Part-B State whether the following statement are true / false.	5 X I = 5	
0)	(5, 7) is a point in the IV quadrant.		
	(a) True (b) False		
7)			
1)	State whether the following statement are true / false. (5, 2) and (-7, 2) are points on the line parallel to y-axis .		
	(a) True (b) False		
Q\			
8)	State whether the following statement are true / false. (-5, 2) lies to the left of y-axis		
	(a) True (b) False		
0)			
9)	State whether the following statement are true / false. (-2, 3) lies in the II quadrant.		
	(a) True (b) False		
10)	State whether the following statement are true / false.		
10)	For any point on the x-axis its y-coordinate is zero.		
	(a) True (b) False		
	Part-C	10 x 2 = 20	
11)	Plot the following points in the rectangular coordinate system C (-2, -3)	10 / 2 / 20	
	Locate the points (-2, -5) and (-5, -2) in the rectangular coordinate system. Observe that if we interchange the abscissa and ordinate of a points (-2, -5) and (-5, -2) in the rectangular coordinate system.	oint, then it may represent a different	
•	point in the Cartesian plane.	,	
13)	Identify the quadrants of the points A (2, 3), B (-2, 3), C (-2, -3) and D (2, -3). Discuss the type of the diagram by joining all the points.		
	Find the distance between the points (–7, 2) and (5, 2)		
	Find the distance between the points $(-3, -4)$, $(5, -7)$		
16)	Show that the three points (4, 2), (7, 5) and (9, 7) lie on a straight line		
17)	Show that the following points (3, -2), (3, 2), (-1, 2) and (-1, -2) taken in order are vertices of a square		
18)	Show that $(4, 3)$ is the centre of the circle which passes through the points $(9, 3)$, $(7, -1)$ and $(1, -1)$. Find also its radius.		
19)	Construct the circumcentre of the \triangle ABC with AB = 5cm, $\angle A$ = 70°		
	and $\angle B$ = 60°. Also draw the circumcircle and find the circumradius of the DABC.		
20)	Construct \triangle ABC whose sides are AB = 6cm, BC = 4cm and AC = 5.5cm and locate its orthocentre.		
	Part-D	10 x 3 = 30	
21)	Plot the following points in the coordinate system and specify their quadrant		
	(4, -5)		
22)	Write down the abscissa for the following points.		
	(-5, -3)		
23)	The ordinates of two points are each -6. How is the line joining them related with reference to x-axis?		
	If the length of the line segment with end points (2, -6) and (2, y) is 4, find y.		
25)	Show that the origin is the circum-centre of the triangle formed by the vertices (1, 0), (0, -1) and $\left(\frac{-1}{2}, \frac{\sqrt{3}}{2}\right)$		
26)	Draw the circumcircle for		
	(i) an equilateral triangle of side 6cm.		

(ii) an isosceles right triangle having 5cm as the length of the equal sides.

- 27) Construct the right triangle whose sides are 4.5cm, 6cm and 7.5cm. Also locate its circumcentre.
- 28) Construct the orthocentre of Δ LMN, where LM = 7cm, \angle M = 130c and MN = 6cm.
- 29) Construct an equilateral triangle of sides 6cm and locate its orthocentre.
- 30) Draw and locate the orthocentre of a right triangle PQR right angled at Q, with PQ = 4.5 cm and QR = 6 cm.

