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Time 1HRS	Chapter	Marks 20
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- Q.1 Multiple Choice Questions** 1
- 1 Find the distance between points L (1, - 4) and M (- 5, 4).
a. 8 units b. 9 units c. 10 units d. 12 units
- Q.2 Answer the following.** 2
- 1 Find the distances between the following points.
P (-6, -3), Q (-1, 9)
- 2 Find the distances between the following points.
R (-3a, a), S (a, - 2a)
- Q.3 Solve the following** 6
- 1 If point P(- 4, 6) divides the line segment AB with A(- 6, 10) and B(r, s) in the ratio 2:1, find the co-ordinates of B.
- 2 Line PQ is parallel to line RS where points P,Q,R and S have co-ordinates (2, 4), (3, 6), (3, 1) and (5, k) respectively. Find value of k.
- Q.4 Answer the following (Non textual)(Any One)** 4
- 1 A(3, 5), B(- 3, - 2), C(5, - 4) are the vertices of $\triangle ABC$. AD is the median of $\triangle ABC$. Find the equation of median AD.
- 2 Find the equation of the line passing through the point of intersection of the line $4x + 3y + 2 = 0$ and $6x + 5y + 6 = 0$ and the point of intersection of the lines $4x - 3y - 17 = 0$ and $2x + 3y + 5 = 0$.
- Q.5 Answer the following(Any One)** 4
- 1 In the following examples, can the segment joining the given points form a triangle? If triangle is formed, state the type of the triangle considering sides of the triangle. L (6,4) , M (- 5,- 3) , N (- 6,8)
- 2 Determine whether the points are collinear.
L (- 2, 3), M(1, - 3), N(5, 4)
- Q.6 Answer the following (Any One)** 3
- 1 Show that A (-4, -7), B (- 1, 2), C (8, 5) and D (5, - 4) are the vertices of a rhombus ABCD.
- 2 Find the co-ordinates of the points of trisection of the segment joining the points A (2, - 2) and B (- 7, 4).

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