Locus and its Equations 16

1m	2m	3m	4m	5m	Total
–	–	1	–	1(U)	5

3 MARKS QUESTIONS

1. Find the equation of the locus of the point equidistant from (–1, 1) and (4, 2).

2. Find the equation of the locus of the point which moves such that its distance from the co-ordinate axes which is in the ratio 5:3.

3. Find the equation of the locus of the point which moves such that its distances from the points A(3, 1) and B(1, 3) are in the ratio 2:3.

4. A point P moves such that $PA^2 = 3PB^2$. If A = (5, 0) and B = (–5, 0). Find the equation of the locus P.

5. Find the equation of the locus of a point which moves such that it forms a right angle triangled with the points (2, 3) and (3, 4).

6. Find the equation of the locus of the point which moves such that it is equidistant from (2, 4) and y-axis.

7. Find the equation of the locus of the point P(x, y) such that its distance from (1, –2) is greater than 3.

8. Find the equation of the perpendicular bisector of the line joining A(3, –2) and B(4, 1).