INTRODUCTION TO THREE DIMENSIONAL GEOMETRY

SECTION FORMULA

EXERCISE

Q.1 The coordinates of a point dividing the line segment joining (1, 2, 3) and (4, 5, 6) internally in the ratio 2:1 is _____

a) (3, 4, 5) b) (5, 4, 3) c) (5, 3, 4) d) (4, 5, 3)

Q.2 In which ratio (3, 4, 5) divides the line segment joining (1, 2, 3) and (4, 5, 6) internally?

a) 1:2 b) 2:1 c) 3:4 d) 4:3

Q.3 If coordinates of vertices of a triangle are (7, 6, 4), (5, 4, 6), (9, 5, 8), find the coordinates of centroid of the triangle.

a) (7, 5, 3) b) (7, 3, 5) c) (5, 3, 7) d) (3, 5, 7)

Q.4 Find the points which trisects the line joining (4, 9, 8) and (13, 27, -4).

a) (0, 21, 10) b) (0, 21, 4) c) (10, 21, 0) d) (4, 4, 0)

ANSWER KEY

1. a) (3, 4, 5)

2. b) 2:1

3. a) (7, 5, 3).

4. c) (10, 21, 0)