

CHAPTER : 12 THREE DIMENSIONAL GEOMETRY

EXERCISE: 12.1

QNo.1: A point is on x-axis. What are its y-coordinate and z-coordinate?

Soln Every point on x-axis has its y-coordinate and z-coordinate as Zero.

QNo.2 A point is in xz-plane. What can you say about its y-coordinate?

Sol: Every point in xz-plane has y-coordinate as ZERO.

QNo.3 Name the octants in which the following points lie

<u>Sol:</u>	Point	Lies in Octant.
	(1, 2, 3)	First I
	(4, -2, 3)	Fourth IV
	(4, -2, -5)	Eighth VIII
	(4, 2, -5)	Fifth V
	(-4, 2, -5)	Sixth VI
	(-4, 2, 5)	Second II
	(-3, -1, 6)	Third III
	(2, -4, -7)	Eighth VIII.

QNo 4 Fill in the blanks:

- (i) The x-axis and y-axis taken together determine a plane known as xy-plane.
- (ii) The coordinates of points in xy-plane are of form $(x, y, 0)$
- (iii) Coordinate planes divide the space into Eight. Octants.

