

CLASS TEST

Class: IX

Sub: Mathematics

Chapter 3: Co-ordinate Geometry

Maximum Marks: 15

Time: 30 minutes

Section A: Multiple Choice Questions [1 x 7 = 7]

1. What is the name of the horizontal line in the Cartesian plane?

(a)	Y-axis	(b)	X-axis
(c)	Origin	(d)	Quadrant

2. The coordinates of the origin are:

(a)	(1, 1)	(b)	(0, 1)
(c)	(1, 0)	(d)	(0, 0)

3. In which quadrant is the point $(3, -4)$ located?

(a)	Quadrant I	(b)	Quadrant II
(c)	Quadrant III	(d)	Quadrant IV

4. If a point lies on the Y-axis, then its x-coordinate is:

(a)	1	(b)	0
(c)	Any real number	(d)	Undefined

5. If a point is equidistant from both the axes, then which of the following could be its coordinates?

(a)	(3, -5)	(b)	(4, -4)
(c)	(2, 0)	(d)	(-3, -8)

6. The point (x, y) lies in the third quadrant. Which of the following must be true?

(a)	$x > 0, y > 0$	(b)	$x < 0, y < 0$
(c)	$x > 0, y < 0$	(d)	$x < 0, y > 0$

7. Which of the following points lies in the second quadrant?

(a)	(3, -2)	(b)	(-4, 5)
(c)	(-2, -3)	(d)	(4, 3)

Section B: Assertion-Reason Based Questions [1 x 3 = 3]

Choose the correct option (Q8-Q10):

- a) Both **Assertion (A)** and **Reason (R)** are true, and **Reason (R)** is the correct explanation of **Assertion (A)**.
- b) Both **Assertion (A)** and **Reason (R)** are true, but **Reason (R)** is not the correct explanation of **Assertion (A)**.
- c) **Assertion (A)** is true but **Reason (R)** is false.
- d) **Assertion (A)** is false but **Reason (R)** is true.

8. Assertion (A): The coordinates (5, 0) lie on the X-axis.

Reason (R): Any point on the X-axis has y-coordinate 0.

9. Assertion (A): The point (-4, -3) lies in the third quadrant.

Reason (R): In the third quadrant, both x and y coordinates are negative.

10. Assertion (A): The point (0, 7) lies on the X-axis.

Reason (R): The x-coordinate of any point on the Y-axis is zero.

Section C: Short Answer Type Questions [2 + 2 + 1 = 5]

11. Plot the points A (2, 3), B (-3, -1), and C (-2, 4) on a Cartesian plane.

Mention the quadrants in which each point lies.

[2]

12. The coordinates of point P are (-5, 0). In which axis does the point lie?

Write the distance of the point from the origin.

[2]

13. Write the coordinates of a point whose ordinate is -5 and lies on the Y-axis.

[1]