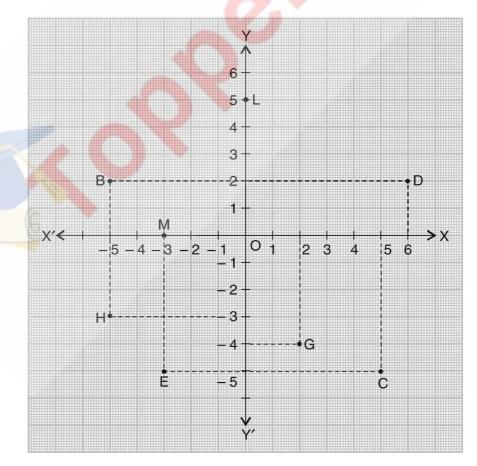
Exerise 3.2

- 1. Write the answer of each of the following questions:
 - (i) What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane?

- (ii) What is the name of each part of the plane formed by these two lines?
- (iii) Write the name of the point where these two lines intersect.
- **Sol.** (*i*) Horizontal line $\rightarrow x$ -axis, vertical line $\rightarrow y$ -axis.
 - (ii) Quadrant.
 - (iii) Origin.
 - **2.** See figure given below and write the following:
 - (i) The coordinates of B.
 - (ii) The coordinates of C.
 - (iii) The point identified by the coordinates (-3, -5).
 - (iv) The point identified by the coordinates (2, -4).
 - (v) The abscissa of the point D.
 - (vi) The ordinate of the point H.
 - (vii) The coordinates of the point L.
 - (viii) The coordinates of the point M.



Sol. (*i*) Distance of point B from x-axis = 2 units (+ve side) (y-coordinate)

Distance of point B from y-axis = 5 units (-ve side) (x-coordinate)

- \therefore Coordinates of the point B are (-5, 2).
- (ii) Distance of point C from y-axis = 5 units (+ve side) (x-coordinate)

Distance of point C from x-axis = 5 units (-ve side) (y-coordinate)

- \therefore Coordinates of the point C are (5, -5).
- (iii) Coordinates of the point are (-3, -5)Distance of the point from y-axis = 3 units (-ve side) Distance of the point from x-axis = 5 units (-ve side) We notice the point is E.
- (iv) Coordinates of the point are (2, -4).
 Distance of the point from y-axis = 2 units (+ve side)
 Distance of the point from x-axis = 4 units (-ve side)
 We notice the point is G.
- (v) The abscissa of the point D = x-coordinate of the point D.
 - = Its distance from y-axis with direction = +6.
- (vi) Ordinate of the point H = y-coordinate of the point H.

 = Its distance from x-axis with direction = -3.
- (vii) Distance of the point L from x-axis

= 5 units (+ve side) (y-coordinate)

Distance of the point L from y-axis = 0 unit (+ve side) (x-coordinate)

- \therefore Coordinates of the point L are (0, 5).
- (viii) Distance of the point M from x-axis

= 0 unit (+ve side) (y-coordinate)

Distance of the point M from *y*-axis

= 3 units (-ve side) (x-coordinate)

 \therefore Coordinates of the point M are (-3, 0).