Short Answer Questions–I (2 marks)

11. If the points $(-3, a)$ and $(b, 4)$ lie on the straight line with equation $y = 4x$, find the values of a and b.
12. If the point $(3, 4)$ lies on the graph of the equation $3y = ax + 7$, find the value of a.
13. Does the point $(-3, -3)$ lie on the line $x = y$? Justify your answer.
14. Are there any points which do not lie in any of the quadrants? If yes, where do they lie?
15. What are the coordinates of a point which lies on x-axis at a distance of 5 units from the y-axis to the left of the origin? What will be the coordinates if it lies on y-axis at a distance of 5 units from the x-axis above the origin?
16. If the coordinates of the two points are $A\ (-2, 5)$ and $B\ (-7, 8)$, then find (abscissa of B) – (abscissa of A).
17. The distance of a point from x-axis is 3 units and from y-axis is 5 units. If the point lies in third quadrant, find the coordinates of the point.

Short Answer Questions–II (3 marks)

18. Without plotting the points, indicate the quadrant in which the following points will lie.
    (*i*) Point whose ordinate is -7 and abscissa is -1.
    (*ii*) Point whose abscissa -4 and ordinate $= -4$.
    (*iii*) Points whose abscissa is 2 and ordinate is 5.
19. In Fig. 4.16, line l is parallel to the x-axis at a distance of 2 units.

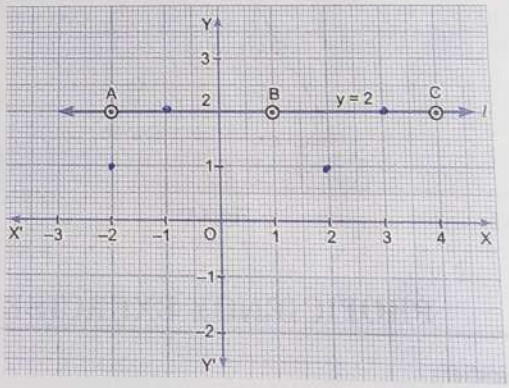

Fig. 4.16

    (*i*) What are the coordinates of the point A, B and C?
    (*ii*) What is the difference between the ordinates of the point A and C?
    (*iii*) Find (abscissa of B) – (abscissa of A).
20. Find the coordinates of the point
    (*i*) whose abscissa is -5 and ordinate is 4.
    (*ii*) whose ordinate is -7 and lies on y-axis.
    (*iii*) whose abscissa is 1 and lies on x-axis.
    (*iv*) whose abscissa equals the ordinate and whose