## WANDOOR GANITHAM - S S L C UNIT TEST 2021

### 5.06BE

## COORDINATES

Total Score : 20
Time : 40 minutes

1. Write down the coordinates of the points $A$ and $B$ from the figure .

2. a) What is the $\boldsymbol{x}$-coordinate of any point on the $\boldsymbol{y}$ axis ?
b) Write down the coordinates of a point on a line parallel to the $\boldsymbol{y}$-axis passing through the point (5, 3) ?
3. In the figure the sides of the rectangle PQRS are parallel to the axes .
a) Write down the coordinates of $\mathbf{P}$ ?

b) Write down the coordinates of $\mathbf{R}$ ?
4. A circle of radius 10 is drawn with origin as centre.
a) Write down the coordinates of a point at which the circle cuts the $\boldsymbol{x}$-axis ?
b) Write down the coordinates of a point at which the circle cuts the $\boldsymbol{y}$-axis ?
c) If $(m, n)$ is a point on this circle, prove that $m^{2}+n^{2}=100$ ?

5 . In the figure OABC is a rectangle. Coordinates of the vertex A are $(\mathbf{5 , 0}) .<\mathrm{AOB}=60^{\circ}$
a) What is the length of OA ?
b) Write down the coordinates of $B$ ?
c) Write down the coordinates of $\mathbf{C}$ ?

6. The coor4dinates of the vertices of the triangle $A B C$ are $A B C A(1,3), B(6,2)$ and C $(4,5)$
a) What is the length of AB ?
b) What is the length of BC ?
c) Prove that ABC is an isosceles triangle ?
7. a) Draw the coordinate axes and mark the following points .
$A(2,4), B(-1,3), C(-1,-1), D(2,-3) ?$
b) What is the most suitable name of the quadrilateral ABCD ?

