PVIDYA BHARATI SCHOOL

OLYMPIAD WORKSHEET: July- 2017

GRADE: IX

SUBJECT: MATHEMATICS

Write the correct answer in each of the following:

1. Point (-3,5) lies in the

    a) First quadrant   b) Second quadrant   c) Third quadrant   d) Fourth quadrant

2. Abscissa of all the points on the x-axis is

    a) 0   b) 1   c) -1   d) any number

3. Ordinate of all points on the x-axis is

    a) 0   b) 1   c) -1   d) any number

4. The point at which the two coordinate axes meet is called the

    a) Abscissa   b) ordinate   c) origin   d) quadrant

5. If y coordinate of a point is zero, then this point always lies

    a) In I quadrant   b) in II quadrant   c) on x-axis   d) on y-axis

6. On plotting the points O(0,0), A(3,0), B(3,4),C(0,4) and joining OA,AB,BC and CO which of the following figure is obtained?

    a) Square   b) Rectangle   c) Trapezium   d) Rhombus

7. If (5,1), Q(8,0), R(0,4), S(0,5) and O(0,0) are plotted on the graph paper, then the points on the z-axis are

    a) P and R   b) R and S   c) Only Q   d) Q and O

8. Abscissa of a point is positive in

    a) I and II quadrants b) I and IV quadrants c) I quadrant only d) II quadrant only

9. The perpendicular distance of the point P (3,4) from the y-axis is

    a) 3   b) 4   c) 5   d) 7

10. Any point on the line y=x is of the form:

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

11. The equation of x-axis is of the form:

    a) X=0   b) Y=0   c) X=Y   d) X+Y=0

12. Which line is parallel to y = x-2

    a) Y=2x+1   b) 2y=2x-6   c) 2y=x+7   d) y=3x+1

13. If the Coordinates of two points are P(-2,3) and Q(-3,5),then find (Abscissa of P)-(Abscissa of Q)

    a) 2   b) 1   c) 3   d) 4

14. A point lies on Y-axis at a distance of 3 units from the X-axis. Find the coordinates of a point.

    a) (0,3) or (0,-3)   b) (0,2) or (0,2)   c) (1,3) or (3,1)   d) (3,0) or (-3,0)

15. The area of the △OPQ with O(0,0), P(1,0) and Q(0,1) is

    a) 1sq unit   b) ½ sq unit   c) ¼ sq unit   d) 2 sq unit

16. If a<0 and b<0, then the point P(a,b) lies in

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

17. Which of the following points lies on the line y= 2x+3

    a) (2,8)   b) (3,9)   c) (4,12)   d) (5,15)

18. If x>0 and y<0 , then the point (x,y) lies in

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

19. Which point does not lie in any quadrant?

    a) (3,-6)   b) (-3,4)   c) (5,7)   d) (0,3)

20. Which of the following points does not lie on the line 3y=2x-5

    a) (7,3)   b) (1,-1)   c) (-2,-3)   d) (-5,5)