# SUB- MATHEMATICS, CLASS-IX 

## CHAPTER -LINEAR EQUATION IN TWO VARIABLES <br> WORKSHEET(STANDARD) <br> MAXIMUM MARKS-20

TIME-45MINS
CHOOSE THE CORRECT OPTION.(MCQ ( $2 \times 1=2$ )

1. The equation $2 x+5 y=7$ has a unique solution, if $x, y$ are :
(A) Natural numbers
(B) Positive real numbers
(C) Real numbers
(D) Rational numbers
2.If a linear equation has solutions $(-2,2),(0,0)$ and $(2,-2)$, then it is of the form
(A) $y-x=0$
(B) $x+y=0$
(C) $-2 x+y=0$
(D) $-x+2 y=0$

FILL IN THE BLANKS $(\mathbf{2} \times 1=2)$
3. The value of $k$, if $x=4, y=-1$ is a solution of the equation $x+y-k=0$ is $\qquad$
4. The equation of $x$-axis is of the form ----------- .

ANSWER THE FOLLOWING. $(2 \times 1=2)$
5.Find the points (without drawing the graph) where the graph of the equation $3 x+4 y=12$ cuts the $x$-axis and the $y$-axis.
6. The line parallel to the $y$-axis at a distance 4 units to the left of $y$-axis is given by the equation $x=-4$. State whether the above statement is true or false with reason.

## SHORT ANSWER TYPE QUESTIONS-I : $(2 \times 2=4)$

7. Write the linear equation such that each point on its graph has an ordinate 3 times its abscissa and write the quadrants on which the graph of the above equation passes through.
8. For what value of $c$, the linear equation $2 x+c y=8$ has equal values of $x$ and $y$ for its solution.

SHORT ANSWER TYPE QUESTIONS-II : $(2 \times 3=6)$
9. Let $y$ varies directly as $x$. If $y=12$ when $x=4$, then write a linear equation. What is the value of $y$ when $x=5$ ?
10. Draw the graphs of linear equations $y=x$ and $y=-x$ on the same cartesian plane and find the points where the graphs intersects the coordinate axes.
LONG ANSWER TYPE QUESTIONS : $(1 \times 4=4)$
11.The Autorikshaw fare in a city is charged Rs 10 for the first kilometer and @ Rs 4 per kilometer for subsequent distance covered. Write the linear equation to express the above statement. Draw the graph of the linear equation.

