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Section A MCQ – 1 Mark Each

Q.1 Find out which of the following equations have $x=1$, $y = 1$ as a solution:

- (a) $2x + 5y = 7$ (b) $5x + 3y = 14$ (c) $2x + 3y = 7$ (d) None of these

Q.2 The equation of x-axis is

- (a) $x+3 = 0$ (b) $x-2y = 0$ (c) $y=0$ (d) $x=0$

Q.3 Any point on the x-axis is of the form

- (a) (x, y) (b) $(0, y)$ (c) $(x, 0)$ (d) (x, x)

Q.4 The point of the form $(b, -b)$ always lies on the line

- (a) $x = a$ (b) $y = -a$ (c) $y = x$ (d) $x+y = 0$

Q.5 Draw graph of $x=3y$

Section B – 2 Mark Each

Q.6 if $x = 2$, $y = 1$ is a solution of the equation $2x + 3k = y$, then find value of k .

Q.7 Draw graph of $2x + 5y = 7$

Section C – 3 Mark Each

Q.8 Solve the equation $5x - 2 = 3x - 8$ and represent the solution (a) on the number line, (b) on the Cartesian plane.

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Section D – 4 Mark Each

Q.9 The linear equation that converts Fahrenheit ($^{\circ}\text{F}$) to Celsius ($^{\circ}\text{C}$) is given by the relation

$$^{\circ}\text{C} = \frac{5^{\circ}\text{F} - 160}{9}$$

Q.10 If the work done by a body on application of a constant force is directly proportional to the distance travelled by the body. Express this in the form of an equation in two variables and draw the graph of the same by taking the constant force as 5 units. Also read from the graph the work done when the distance travelled by the body is (a) 2 units (b) 0 unit.

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