Total Marks: 25

STD 9 Maths Linear Equations in Two Variables DPP-4

*	Choose the right answer	from the given options. [1	Marks Each]	[25]			
1.	The equation $2x + 5y = 7$ (A) Rational numbers	has a unique solution, if x (B) Real numbers	, y are: (C) Natural numbers	(D) Positive real numbers			
2.	If (-2, 5) is a solution of 2: (A) -2	x + my = 11, then the value (B) 2	e of 'm' is: (C) 3	(D) -3			
3.	If $(3, 2)$ is the solution $3x$ (A) 2	- ky = 5, then k equals of t (B) 4	he equation. (C) 3	(D) $\frac{1}{2}$			
4.	The graph of linear equa (A) (2, 0)	tion x + 2y = 2, cuts the y - (B) (0, 2)	axis at: (C) (0, 1)	(D) (1, 1)			
5.	If $x = 3$ and $y = -2$ satisfies (A) -2	s 2x - 3y = k, then the value (B) 10	e of k is: (C) 12	(D) 3			
6.	Write the correct answer $x = 5$ and $y = 2$ is a solution	on of the linear equation,	(C)	(D) [
7.	(A) $x + 2y = 7$ The value of k if $x = 3$ and (A) 32	(B) 5x + 2y = 7 I y = -2 is a solution of the (B) 30	(C) x + y = 7 equation 2x - 13y = k is: (C) 31	(D) 5x + y = 7 (D) 23			
8.		quation 4x + 2y = 12, cuts (B) (0, -2)		(D) (0, 3)			
9.	The graph of $x = -4$ is a s (A) Parallel to x-axis.	traight line. (B) Parallel to y-axis.	(C) Passing through origin.	(D) Intersecting the axes.			
10.	The graph of the linear e (A) (2, 0)	quation 2x + 3y = 6 cuts th (B) (0, 2)	ne y - axis at the point. (C) (3, 0)	(D) (0, 3)			
11.	If $x = 3$ and $y = -2$ satisfies (A) 3	s $5x - y = k$, then the value (B) -2	of k is: (C) 17	(D) 12			
12.	Each of the points (-2, 2), (A) $x - y = 0$	(0, 0), (2, 2) satisfies the li	inear equation: (C) -x + 2y = 0	(D) x - 2y = 0			
13.	Write the correct answer in the following: 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) $-2x + y = 0$	(D) $-x + 2y = 0$			
14.	The condition that the equation $ax + by + c = 0$ represents a linear equation in two variables is:						
	(A) $a \neq 0$, $b = 0$	(B) b $\neq 0$, a = 0	(C) $a = 0$, $b = 0$	(D) a ≠0, b ≠0			
15.	If the line represented by the equation $3x + ky = 9$ passes through the points (2, 3), then the value of k is:						
	(A) 2	(B) 4	(C) 3	(D) 1			

16.	Find the value of k, if $x = 1$, $y = 2$ is a solution of the equation $2x + 3y = k$.						
	(A) 5	(B) 6	(C) 7	(D) 8			
17.	If the point $(3, 4)$ lies on the graph of $3y = ax + 7$ then the value of a is:						
	(A) $\frac{2}{7}$	(B) $\frac{2}{5}$	(C) $\frac{5}{3}$	(D) $\frac{3}{5}$			
18.	The linear equation $3x - y = x - 1$ has:						
	(A) Two solutions.	(B) No solution.	(C) Infinitely many solutions.	(D) A unique solution.			
19.	The cost of 2kg of apples and 1kg of grapes on a day was found to be ₹ 160. A linear equation in two variables to represent the above data is:						
	(A) $x + y = 160$	(B) $2x - y = 160$	(C) $x - 2y = 160$	(D) $2x + y = 160$			
20.	. A linear equation in two variables is of the form $ax + by + c = 0$, where:						
	(A) $a = 0$, $c = 0$	(B) a $\neq 0$, b = 0	(C) $a = 0$, $b \neq 0$	(D) a ≠0, b ≠0			
21.	The force applied on a body is directly proportional to the acceleration produced on it. The equation to represent the above statement is:						
	(A) y = kx	(B) $y + x = 0$	(C) None of these	(D) $y = x$			
22.	2. The taxi fare in a city is as follows: For the first kilometer, the fare is ₹ 8 and for subsequent distance it is ₹ 5 per kilometer. Taking the distance covered as x km and total f as ₹ y, write a linear equation for this information.						
	(A) $x = 5y - 3$	(B) $y = 5x + 3$	(C) $x = 5y + 3$	(D) $y = 5x - 3$			
23.	The graph of a linear equation $x - 5y + 3 = 0$ cuts the x-axis at the point.						
	(A) (-5, 0)	(B) (5, 0)	(C) (-3, 0)	(D) (3, 0)			
24.	Point (3, 4) lies on the graph of the equation $3y = kx + 7$. The value of k is:						
	(A) $\frac{4}{3}$	(B) $\frac{5}{3}$	(C) 3	(D) $\frac{6}{3}$			
25.	The area of the triangle formed by the line $3x + 4y = 12$ and the co-ordinate axis is:						
	(A) 6 sq. units.	(B) 12 sq. units.	(C) 4 sq. units.	(D) 3 sq. units.			