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SERIES - 1**IMP SERIES Introduced
by
“CGBSE SUPPORT”****Important Questions
for Chhattisgarh
Board Exam ‘2021’**

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CLASS – 10th**Subject – Mathematics****“Linear Equation in Two Variables”****2 Marks Questions.**

1. Check whether values of $x=2$ and $y=5$ are solutions of the given equation $2x-3y=-11$.
2. Find the value of k for which the given system of equation have no solution

$$kx+3y = 3 ; \quad 12x + ky = 6$$

3. Find the value of k for which the given system of equation have a unique solution.

$$a. \quad kx+2y = 5 ; \quad 3x + y = 1$$

4. If $x=2$; $y = 4$ then find the value of p in $7x - 4y = p$.
5. If the straight line $2x-ky = 9$ passes through $(1, -1)$, then find value of k .
6. For what value of k will the system of equations have a unique solution?

$$x-ky = 2 , \quad 3x+2y = -5.$$

“3” Marks Questions:

1. Solve the following :

$$4x+3y = 5 ;$$

$$2x-y = 2$$

2. Find the value of k for which the given system of equations have a unique solution.

$$kx+3y = k - 3 ; \quad 12x+ky = k.$$

3. Find the value of k which the given system of equations has infinite solutions.
4. Find the value of the variables the given equations:

$$2x-5y = 8;$$

$$x-4y = -7$$

“6” Marks Question:

1. The cost of 15 kg tea and 17 kg coffee is Rs 183 and the cost of 25 kg tea and 13 kg coffee is Rs 213. what will be the cost of 7 kg tea and 1 kg coffee?

2. A person owns some pigeons and cows. The number of legs of these animals is 180 and the total number of eyes is 120. How many cows and pigeons does the person own?
3. The sum of two numbers is 25. The sum of their reciprocals $\frac{1}{4}$. Find the two numbers.
4. The difference of two number is 14 and the difference in their squares is 448. Find the numbers.
5. The product of two numbers is 45 and their sum is 14. Find the two numbers.
6. Seven times of a two digit number is equal to 4 times of the number formed by reversing the digit. The sum of the two digit is 3. Find the numbers.
7. In a ΔABC , $\angle A = x^\circ$, $\angle B = 3x^\circ$ and $\angle C = y^\circ$. If $3y^\circ - 5x^\circ = 30^\circ$ then prove that this is a right triangle.