ST. LAWRENCE HIGH SCHOOL

TOPIC- Simultaneous Equation

Sub: Mathematics   **Class: 9**   **F. M. 15**

WORK SHEET NO. -8   **Date: 15.4.2020**

OBJECTIVE QUESTIONS
Choose the correct option : 1x15=15

1) If $y=2x$ and $x+2y=10$ then what is the value of y?
   a) 1   b) 2   c) 3   d) 4

2) If $2x+3t=1$ and $y=t/3 +1$ then what is the relation between x and y?
   a) $9x+2y=10$ b) $2x+9y=10$ c) none of the above

3) If $x=2t$ and $y=t/3 - 1$ then for what value of t, $x=2y$?
   a) 2/3   b) - 2/3   c) 3/2   d) - 3/2

4) If the sum of two numbers is equal to the sum of their reciprocal then what is the product of the numbers?
   a) 1   b) 2   c) 3   d) 4

5) For what value of k, the Simultaneous equations $7x-5y-4=0$ and $14x+ky+4=0$ will have no solution?
   a) - 5   b) 5   c) 10   d) - 10

6) If the straight line $3x+4y=5$ and $4mx - 3y=2$ are mutually perpendicular, then m=_____.
   a) 1   b) 2   c) 3   d) 4

7) If the straight line $ax+5y=8$ and $3x+by=7$ are parallel, then the relation between a and b is
   a) $a+b=15$ b) $a-b=1$ c) $a+b=15$ d) $ab=15$

8) If the equations $x+3y+5=0$ and $2x+ky+10=0$ have infinite solutions then k=

a) 6   b) 1   c)4 d) 2

9) If the equations $3x+4y=5$ and $3x+ky=6$ have no solution, then k=
    a) - 5 b) 5   c) 6 d) 4

10) The solution of the equations $2x+5y=8$ and $2x-ky=3$ is not possible if the value of k is_____.
    a) - 5   b) - 2   c) 5   d) 2

11) The solution of the equations $x-8y=1$ and $(4+k)y-x+1=0$ is possible if the value of k is not____.
    a) 3 b)4   c) 5 d) 1

12) If $x+2t=1$ and $y/2 +t=1$ then y-x=
    a) 1 b) 2 c) 3 d) 4

13) If $x/y=5/16$ and $x+y=21$ then the value of $(x-y) =$____.
    a) 10 b) - 11 c) 21 d) 11

14) The equations $2x-3y=1$ and $3x-2y=1$ have a_____ solution.
    a) definite b) infinite c) no d) none of the above.

15) The equations $3x+5y=7$ and $6x+10y=14$ have a____ solution.
    a) infinite b) definite c) no d) none of the above.

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