## Class X - Mathematics Chapter wise Test 3 of 2023

MM20 Pairs of Linear Equations in two variables Time 50 Min

## Section A - 1 Mark Each

Q1. Solution of $2 x-3 y=5$ and $3 x-2 y=5$ is $\qquad$
(A) $x=1, y=-1$
(B) $x=1, y=2$
(C) $x=2, y=1$
(D) $x=2, y=-2$

Q2. The graph of $2 x-3 y=0$ is
(A) parallel to $x$ axis
(B) parallel to $x$ axis
(C) Passes through origin
(D) None of the rest

## Section B - 2 marks each

Q3. Solve: $113 x+115 y=343$ and $115 x+113 y=341$
Q4. Write a pair of linear equations which has the unique solution $x=-2, y=5$. How many such pairs can you write?

## Section C-3 marks each

Q5. For which values of $p$ and $q$, will the following pair of linear equations have infinitely many solutions? $4 x+5 y=2,(2 p+7 q) x+(p+8 q) y=2 q-p+1$.

Q6. The age of the father is five times the sum of the ages of his three children. After 5 years, his age will be three times the sum of the ages of his children. Find the age of the father.

## Section D - 4 marks each

Q7. Draw the graphs of the pair of linear equations $x-y+2=0$ and $4 x-y-4=0$. Calculate the area of the triangle formed by the lines so drawn and the $x$-axis.

Q8. A shopkeeper sells a saree at $8 \%$ profit and a sweater at $10 \%$ discount, thereby, getting a sum Rs 1008. If she had sold the saree at $10 \%$ profit and the sweater at $8 \%$ discount, she would have got Rs 1028. Find the cost price of the saree and the list price (price before discount) of the sweater

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