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A



INDIAN SCHOOL MUSCAT FIRST PERIODIC ASSESSMENT

MATHEMATICS

CLASS: X

Sub. Code: 041

Time Allotted: 50 mts

14 -04-2019

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. All questions are compulsory.
2. The question paper consists of 7 questions divided into two sections A and B.
3. Section A comprises of 4 questions of 2 marks each and Section B comprises of 3 questions of 4 marks each.

SECTION: A

1. Name the type of lines, the following pair of linear equations represents. Justify your answer: 2
i. $2x + 3y = 4$; $2x - 3y = 4$ ii. $x - 2y = 1$; $3x - 6y = 5$
2. For what values of k, do the following pair of linear equations have infinitely many solutions? 2
 $kx + 3y = k - 3$ and $12x + ky = k$
3. Solve for x and y algebraically: $2x - 3y = -4$, $5x + y = 7$ 2
4. The difference between two numbers is 26. If one number is thrice the other, find the numbers. 2

SECTION :B

5. Solve the following pair of equations by reducing them to a pair of linear equations: 4
 $\frac{11}{x} - \frac{7}{y} = 1$ and $\frac{9}{x} - \frac{4}{y} = 6$, where $x \neq 0$ and $y \neq 0$.
6. Five years hence, the age of father will be three times that of his son. Five years ago, father's age was seven times that of his son. Find their present ages. 4
7. Solve the following pair of linear equations graphically: 4
 $x + 3y = 6$ and $2x - 3y = 12$

Hence find the area of the region bounded by $x=0$, $y=0$ and $2x - 3y = 12$.

End of the Question Paper