Roll Number		

B

INDIAN SCHOOL MUSCAT
FIRST PERIODIC ASSESSMENT

MATHEMATICS

CLASS:X **Sub. Code:041** **Time Allotted:50mts**

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. The difference between two numbers is 26. If one number is thrice the other, find the numbers. 2

2. Solve for x and y algebraically: $2x - 3y = -4$, $5x + y = 7$ 2

3. Name the type of lines, the following pair of linear equations represents. Justify your answer: 2

   i. $2x + 3y = 4$; $2x - 3y = 4$ ii. $x - 2y = 1$; $3x - 6y = 5$

4. For what values of k, do the following pair of linear equations have infinitely many solutions? 2

   $kx + 3y = k - 3$ and $12x + ky = k$

SECTION :B

5. The sum of a two digit number and the number obtained by reversing the digits is 66. If the digits of the number differ by 2, find the number. How many such numbers are there? 4

6. 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 $y \neq 0$.

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