Roll Number		

A

INDIAN SCHOOL MUSCAT
FIRST PERIODIC ASSESSMENT

MATHEMATICS

CLASS: IX **Sub. Code: 041** **Time Allotted:50 min.**

16.05.2019 **Max. Marks: 20**

GENERAL INSTRUCTIONS:

1. ***All questions are compulsory.***
2. ***Questions 1 to 4 carry TWO marks each.***
3. ***Questions 5 to 7 carry FOUR marks each.***

SECTION – A (2 x 4 = 8 marks)

1. Expand the following using an appropriate identity: $(\sqrt{3} + \sqrt{2})^2$

2. Represent $\sqrt{2}$ on the number line.

3. Classify the following as rational or irrational number. Give justification for your answer.

   a) 4.67676767… b) 4.6767767776…

4. Express 2.3333… in p/q form where p and q are integers and $q \neq 0$.

SECTION – B (4 x 3 = 12 marks)

5. Represent $\sqrt{5.6}$ on the number line.

6. Find the values of a and b if :

   $\frac{7-4\sqrt{3}}{7+4\sqrt{3}} = a - b\sqrt{3}$

7. Simplify: (a) $-7\sqrt[3]{216} + 12\sqrt[5]{32}$

   (b) $3^{\frac{2}{3}} \times 3^{\frac{-1}{9}}$

End of the question paper