ROLL NUMBER				

SET A

INDIAN SCHOOL MUSCAT
FIRST PERIODIC TEST

MATHEMATICS

CLASS: IX
29.05.2022

Sub. Code: 041

Time Allotted: 50mts.
Max. Marks: 20

GENERAL INSTRUCTIONS:

*** All Questions are compulsory.***

1. Find 4 rational numbers between $\frac{1}{2}$ *and* $\frac{3}{5}$. 2

2. Classify the following as rational or irrational number. 2

   (i) $\sqrt{18} - 2\sqrt{2} - \sqrt{2}$

   (ii) $3 + \sqrt{25} - \sqrt{5}$

3. Write 2 irrational numbers between $\frac{-1}{4}$ *and* -0.35. 2

4. Represent $\sqrt{5}$ on number line. 3

5. Write 0.2333333… in $\frac{p}{q}$ form. Show your working. 3

6. Simplify: (i) $(3^2 + 2^3 - 1^4)^{\frac{1}{2}}$ 4

   (ii) $\frac{8^{\frac{1}{3}} \times 16^{\frac{-1}{3}}}{32^{\frac{-2}{3}}}$

7. Find the value of a and b if $\frac{3+2\sqrt{7}}{2-3\sqrt{7}} = a + b\sqrt{7}$. 4

End of the Question Paper

ROLL NUMBER				

SET B

INDIAN SCHOOL MUSCAT
FIRST PERIODIC TEST

MATHEMATICS

CLASS: IX
29.05.2022

Sub. Code: 041

Time Allotted: 50mts.
Max. Marks: 20

GENERAL INSTRUCTIONS:
**** All Questions are compulsory.***

1. Find 4 rational numbers between $\frac{-1}{2}$ *and* $\frac{-3}{4}$. 2

2. Classify the following as rational or irrational number (Steps to be shown). 2

   (i) $\sqrt{12} + \sqrt{3} - 3\sqrt{3}$
   (ii) $3 + \sqrt{16} - \sqrt{2}$

3. Write 2 irrational numbers between $\frac{1}{4}$ *and* 0.35. 2

4. Represent $\sqrt{2}$ on number line. 3

5. Represent 0.4333333... in $\frac{p}{q}$ form. 3

6. Simplify: (i) $(5^2 + 2^3 - 1^4)^{\frac{1}{5}}$ 4

   (ii) $\frac{64^{\frac{1}{3}} \times 27^{\frac{-1}{3}}}{243^{\frac{-2}{5}}}$

7. Find the value of a and b if $\frac{3-2\sqrt{5}}{3+2\sqrt{5}} = a + b\sqrt{5}$. 4

End of the Question Paper

ROLL NUMBER				

SET C

INDIAN SCHOOL MUSCAT
FIRST PERIODIC TEST

MATHEMATICS

CLASS: IX | Sub. Code: 041 | Time Allotted: 50 mts.
29.05.2022 | Max. Marks: 20

GENERAL INSTRUCTIONS:
* All Questions are compulsory.

1. Find 4 rational numbers between $\frac{1}{4}$ *and* $\frac{1}{2}$. 2

2. Classify the following as rational or irrational number. 2

   (i) $\sqrt{32} - 3\sqrt{2} - \sqrt{2}$
   (ii) $3 + \sqrt{36} - \sqrt{6}$

3. Write 2 irrational numbers between $\frac{-1}{2}$ *and* -0.37. 2

4. Represent $\sqrt{5}$ on number line. 3

5. Represent 0.1333333... in $\frac{p}{q}$ form. 3

6. Simplify: (i) $(3^3 + 2^3 + 1^4)^{\frac{1}{2}}$ 4

   (ii) $\frac{(27)^{\frac{1}{3}} \times (125)^{\frac{-1}{3}}}{(32)^{\frac{-2}{3}}}$

7. Find the value of a and b if $\frac{5+2\sqrt{3}}{5-2\sqrt{3}} = a - b\sqrt{3}$. 4

End of the Question Paper