Roll Number		

A

INDIAN SCHOOL MUSCAT
THIRD PERIODIC TEST

MATHEMATICS

CLASS: IX | Sub. Code: 041 | Time Allotted: 50 mts

10.01.2019 | 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.

1. ABCD is a parallelogram. BE is perpendicular to AD. If BE = 14cm, AD = 8cm, then find the area of ΔDBC. **2**

2. Diagonals AC and BD of a trapezium ABCD with AB||CD intersect each other at O. Prove that ar(ΔAOD) = ar(ΔBOC). **2**

3. The total surface area of a cube is 726 cm^2. Find the length of edge of the cube. **2**

4. The height of a cone is 16 cm and its base radius is 12 cm. Find the total surface area of a cone. (Take π = 3.14) **2**

5. In ΔABC, E is the midpoint of the median AD. Show that $ar(\Delta BED) = \frac{1}{4} ar(\Delta ABC)$. **4**

6. A hemispherical bowl without lid, made of brass, has inner diameter 70cm. Find the cost of tin plating it on the inside at the rate of ₹16 per 100 cm^2. **4**

7. The capacity of a cuboidal tank is 50000 litres of water. Find the breadth of the tank, if its length and depth are respectively 2.5m and 10m. **4**

End of the Question Paper