Roll Number		

B

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. Find the radius of a sphere whose surface area is 616 cm^2. **2**

2. Diagonals EG and FH of a trapezium EFGH with EF||GH intersect each other at O. Prove that ar(ΔEOH) = ar(ΔFOG). **2**

3. A square piece of paper of side 22cm is rolled to form a cylinder. Find the volume of the cylinder. **2**

4. PQRS is a parallelogram. QM is perpendicular to PS. If QM = 16cm, PS = 12cm, then find the area of ΔSQR. **2**

5. The plastic paint in a container is sufficient to paint an area equal to 2170m^2. How many blocks of dimensions 150 cm × 100 cm × 80 cm can be painted out of this container. **4**

6. The circumference of the base of a 24m high solid wooden cone is 44m. Find the cost of polishing its curved face at the rate of ₹25 per m^2. **4**

7. In ΔPQR, M is the midpoint of the median PS. Show that $ar(\Delta QMS) = \frac{1}{4} ar(\Delta PQR)$. **4**

End of the Question Paper