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## 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. The lateral surface area of a cube is  $576 \text{ cm}^2$ . Find the length of edge of the cube. **2**
2. Diagonals PR and QS of a trapezium PQRS with  $PQ \parallel SR$  intersect each other at O. Prove that  $\text{ar}(\triangle POS) = \text{ar}(\triangle QOR)$ . **2**
3. A well of 4m diameter is dug 14m deep on the ground. Find the volume of earth taken out. **2**
4. WXYZ is a parallelogram. XP is perpendicular to WZ. If  $XP = 12\text{cm}$ ,  $WZ = 18\text{cm}$ , then find the area of  $\triangle ZXY$ . **2**
5. How many lead balls, each of radius 1 cm, can be made from a sphere of radius 8 cm? **4**
6. In  $\triangle XYZ$ , P is the midpoint of the median XA. Show that  $\text{ar}(\triangle YPA) = \frac{1}{4} \text{ar}(\triangle XYZ)$ . **4**
7. A conical tent of radius 7 m and height 24 m is to be made. Find the cost of the cloth required to make the tent at the rate of ₹50 per  $\text{m}^2$ . **4**

End of the Question Paper