

**INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT- 4
MATHEMATICS**

Date: 22-01-2014

Time: 45mnts

Class: VIII

Marks: 25

General Instructions:

- All questions are compulsory.
- Section A comprises 3 questions of 1 mark each.
- Section B comprises 4 questions of 2 marks each.
- Section C comprises 2 questions of 3 marks each.
- Section D comprises 2 questions of 4 marks each.

SECTION A

1. The area of a rhombus is 240 sq. cm and one of the diagonal is 16 cm. Find the other diagonal.

- (a) 30 cm (b) 15cm (c) 12 cm (d) 25 cm

2. Find the value of $(5^0 + 6^0 + 8^0)^{-4}$

- (a) 27 (b) 1 (c) $\frac{1}{81}$ (d) $-\frac{1}{81}$

3. Find the value of $(\frac{1}{3})^{-3}$

- (a) 27 (b) 72 (c) 9 (d) - 27

SECTION B

4. Write the standard form of (a) 0.00000000467 (b) 310900000000

5. Find “m” so that $(\frac{3}{7})^3 \times (\frac{3}{7})^{-6} = (\frac{3}{7})^{2m-1}$

6. Find the surface area of a cube whose edge is 6 m.

7. Simplify; $(3^2 - 2^2) \times (\frac{2}{3})^{-3}$

SECTION C

8. Find the volume of a cylinder, if the diameter of its base is 21 cm and its height is 10 cm.

9. Simplify; $\left\{(\frac{2}{3})^2\right\}^3 \times (\frac{1}{3})^{-4} \times 3^{-1} \times 6^{-1}$

SECTION D

10. The lateral surface area of a hollow cylinder is 4224 cm². It is cut along its height and formed a rectangular sheet of width 33 cm. Find the perimeter of the rectangular sheet.

11. The floor of a rectangular hall has a perimeter of 250 m. If its height is 6 m, find the cost of painting its four walls (including doors and windows) at the rate of Rs 6 per sq. m.

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