Set 1
No of printed pages: 2

INDIAN SCHOOL SOHAR
FORMATIVE ASSESSMENT IV- 2015-16

Date: Marks: 20

Class: VIII Time: 40 minutes

Note: Do the calculations in working column. Give necessary formula and steps wherever required.

SECTION-A (Each question carries 1 mark)

For the questions 1 to 3 fill in the blanks by choosing the most suitable answers from the options given.

1. 50000 litres = …….. cubic meters.

   a) 5 liters b) 50 c) 500 d) 5000

2. The multiplicative inverse of 7^{-5} is ……..

   a) 7^5 b) $\left(\frac{1}{7}\right)^5$ c) -7^{-5} d) -7^5

3. The value of $2^5 \div 2^{-6}$ is ……..

   a) 2^{-11} b) 4^{-11} c) 2^{-1} d) 2^{11}

Set 2
No of printed pages: 2

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Date: Marks: 20

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Note: Do the calculations in working column. Give necessary formula and steps wherever required.

SECTION-A (Each question carries 1 mark)

For the questions 1 to 3 fill in the blanks by choosing the most suitable answers from the options given.

1. 60000 litres = …….. cubic meters.

   b) 6 liters b) 60 c) 600 d) 6000

2. The multiplicative inverse of 7^5 is ……..

   b) -7^5 b) $\left(\frac{1}{7}\right)^{-5}$ c) -7^{-5} d) 7^{-5}

3. The value of $2^5 \div 2^{-6}$ is ……..

   b) 2^{11} b) 4^{-11} c) 2^{-1} d) 2^{-11}

SECTION-B (Each question carries 2 marks)

4. Find the value of $[\frac{1}{4}]^{-3} + [\frac{1}{5}]^{-3} + [\frac{1}{2}]^{-3}$
5. The volume of a cuboidal block is 400 cm^3. If it is 20 cm long and 6 cm wide, find its height.

SECTION- C (Each question carries 3 marks)

6. Simplify and find the value of $\left(\frac{-4}{7}\right)^2 \times \left(\frac{3}{4}\right)^3 \times \left(\frac{7}{5}\right)^3$
7. A swimming pool is 20 m in length, 12 m in breadth and 5 m in depth. Find the cost of cementing the floor and walls at the rate of 160 per m^2.
8. A worker is paid Rs 840 for working 8 days. If his total wages during a month are Rs 2940, for how many days did he work during the month?

SECTION- D (Each question carries 4 marks)

9. The lateral surface area of a 10 cm high cylinder is 440 m^2. Find the volume of the cylinder.

(OR)

A cylindrical tank has capacity 9240 cm^3. If its depth is 15 cm, then find its diameter.

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SECTION-B (Each question carries 2 marks)

4. Find the value of $[\frac{1}{5}]^{-3} + [\frac{1}{3}]^{-3} + [\frac{1}{2}]^{-3}$
5. The volume of a cuboidal block is 300 cm^3. If it is 20 cm long and 6 cm wide, find its height.

SECTION- C (Each question carries 3 marks)

6. Simplify and find the value of $\left(\frac{-4}{7}\right)^2 \times \left(\frac{3}{4}\right)^3 \times \left(\frac{7}{5}\right)^4$
7. A worker is paid Rs 9600 for working 8 days. If his total wages during a month are Rs 38400, for how many days did he work?
8. A swimming pool is 18 m in length, 14 m in breadth and 5 m in depth. Find the cost of cementing the floor and walls at the rate of 150 per m^2.

SECTION- D (Each question carries 4 marks)

9. The curved surface area of a 10 cm high cylinder is 880 m^2. Find the volume of the cylinder.

(OR)

A cylindrical tank has capacity 9240 cm^3. If its depth is 15 cm, then find its diameter.

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