INDIAN SCHOOL SOHAR
SUMMATIVE ASSESSMENT1- 2013-14

Date: 16.03.2014   Marks: 60
Class: VIII   Time: 2 hours

General Instructions:
➤ All questions are compulsory
➤ The question paper consists of 18 questions divided into 4 sections A,B,C and D. Section-A comprises of 10 questions of 1 mark each, Section-B comprises of 6 questions of 2 marks each, Section-C comprises of 6 questions of 3 marks each and Section-D comprises of 5 questions of 4 marks each.
➤ Question numbers 1 to 10 in Section-A are multiple choice questions where you are to select one correct option out of the given four.

SECTION-A
To fill up the blanks choose the most suitable answers from the options given.

1. i) The ratio of 5m to 7 km is ………………

   a) 5: 7   b) 5:700   c) 1:140   d) 1:1400

   ii) A shop gives 5% discount. Then the sale price of a bag marked at Rs 55000 will be …………….. .

   a) 27500   b) 5500   c) 52250   d) 50000

   iii) Sum of $a - b + ab$, $b - c + bc$, $c - a + ac$ is …………………

   a) ab + bc + ac   b) 2abc   c) a + b + c   d) $a^2b^2c^2$

   iv) The area of a rhombus with diagonals 9 cm and 6 cm is …………….

   a) 54sq.cm   b) 27sq.cm   c) 54sq.m   d) 27 sq. m

   v) The volume of a cube of side 2.5cm is …………………

   a) 6.25cu.cm   b) 25sq.cm   c) 37.5sq.cm   d) 15.625cu.cm

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

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

   vii) The standard form of 0.00000000675 is………………..

   a) 6.75×10^{-9} b) 6.75×10^9 c) 675×10^{-11} d) 675×10^{-7}

viii) An electric pole 12m high casts a shadow of 6m. The height of a tree that casts a shadow of 9m at the same moment is ……………..

    a) 4.5m   b) 8m   c) 18m   d) 10m

ix) The factorisation of $12x + 27$ is ……………………

    a) $3(x + 9)$ b) $3(x + 27)$ c) $12(x + 27)$ d) $12x(x + 2)$

x) The point ……………….lies on the x-axis.

    a) (4,4)   b) (5,0)   c) (0,8)   d) (1,1)

SECTION-B

2. The cost of a pair of shoes is Rs 870 Find the sales price including tax, if 5% sales tax is charged?

3. Subtract: $7x^2y^3 - 3y^2z^3 + 9xyz - 4y^3 \ from \ 5x^2y^3 - 3z^3y^2 + 7xyz + 11y^3$.

4. Find the area of a field in the shape of a trapezium if one of its diagonals is 32m and the lengths of the perpendiculars dropped on it from the remaining vertices are 7.5m and 10.5m.

5. Expand using exponents: a) 415.007   b) 1506.206

6. If 30 erasers of equal value cost Rs 210, how many erasers of the same type can be bought for Rs 525?

7. Factorise using identity: $49y^2 + 84yz + 36z^2$.

SECTION-C

8. By selling a mixer-grinder for Rs 42800, a shop keeper makes a profit of 25%. Find the cost price of the mixer-grinder.

9. Find the square using identity: a) $(4x - 7z)^2$ b) 99^2

10. How much tin is required to make an open box with length 80cm, breadth 25cm and height 50cm?

11. Simplify: $\dfrac{3^{-5} \times 10^{-5} \times 125}{5^{-5} \times 6^{-5}}$.

12. A school has 8 periods a day each of 45 minutes duration. How long would each period be if the school has 9 periods a day assuming the number of school hours is the same?

13. Factorise: a) $x^2 - 12x - 45$ b) $144a^2 - 169b^2$

SECTION-D

14. Mr. Lal borrowed a sum of Rs 18000 from a finance company at the rate 12% per annum compounded half yearly for 18 months. Find the amount and compound interest Mr. Lal has to pay.

15. A swimming pool is 25m long, 14m wide and 3m deep. Find the cost of repairing its floor and four walls at the rate of Rs 25 per sq.m.

16. Evaluate: $\left[\left(\frac{1}{3}\right)^{-4} - \left(\frac{1}{7}\right)^{-2}\right] \div \left(\frac{1}{2}\right)^{-5}$.

17. Resolve into factors and divide: $4yz(z^2 + 6z - 16) \div 2y(z + 8)$.

18. The maximum temperature on 7 days of June 2013 in Delhi is given below. Draw a temperature time graph for the data (Linear graph).

Date	1	2	3	4	5	6	7
Max. Temp. in °C	40.5	41	39	40	42	43	44

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