INDIAN SCHOOL SOHAR FORMATIVE ASSESSMENT- 1 MATHEMATICS

Date: 06-05-2014 Class: IX Time: 45mnts Marks: 20

General Instructions:

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

SECTION A

- 1. Find the zero of the polynomial p(x) = 3x 2
- 2. Find the value of $y^{a-b} \times y^{b-c} \times y^{c-a}$.
- 3. Find the reminder when $x^3 + 3x^2 + 3x + 1$ is divided by (x + 1).

SECTION B

- 4. Express $3.42\overline{5}$ in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$.
- 5. Simplify $\sqrt[4]{81} 8\sqrt[3]{216} + 15\sqrt[5]{32} + \sqrt{225}$.

SECTION C

- 6. If $a + b\sqrt{3} = \frac{5 + \sqrt{3}}{5 \sqrt{3}}$, find the values of a and b.
- 7. Locate $\sqrt{13}$ on the number line.
- 8. If $y = 3 + 2\sqrt{2}$, find the value of $(\sqrt{y} \frac{1}{\sqrt{y}})$.

SECTION D

9. If $f(x) = x^4 - 2x^3 + 3x^2 - ax + b$ is divided by (x - 1) and (x + 1), it leaves the remainders 5 and 19 respectively. Find a and b.

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