# INDIAN SCHOOL SOHAR <br> FORMATIVE ASSESSMENT- 1 <br> MATHEMATICS 

Date: 06-05-2014
Time: 45mnts
Class: IX
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 value of $y^{a-b} \times y^{b-c} \times y^{c-a}$.
2. Find the zero of the polynomial $p(x)=2 x+5$
3. Find the reminder when $x^{3}+3 x^{2}+3 x+1$ is divided by $(2 x+5)$.

## SECTION B

4. Express $2.02 \overline{5}$ in the form of $\frac{p}{q}$, where p and q are integers and $\mathrm{q} \neq 0$.
5. Simplify $\sqrt[4]{81}-8 \sqrt[3]{216}+15 \sqrt[5]{32}+\sqrt{225}$.

## SECTION C

6. If $a+b \sqrt{3}=\frac{\sqrt{3}-1}{\sqrt{3}+1}$, find the values of $a$ and $b$.
7. Locate $\sqrt{17}$ on the number line.
8. If $x=3+2 \sqrt{2}$, find the value of $\left(\sqrt{x}-\frac{1}{\sqrt{x}}\right)$.

## SECTION D

9. If $f(x)=x^{4}-2 x^{3}+3 x^{2}-a x+b$ is divided by $(x-1)$ and $(x+1)$, it leaves the remainders 5 and19 respectively.Find a and b.
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