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INDIAN SCHOOL SOHAR   **SET   3**
FORMATIVE ASSESSMENT I (2015 – 16)
MATHEMATICS

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Class: IX   **Marks: 20**
Date: **Time: 40 minutes**

General Instructions:
a.   The question paper has 9 questions in all. All questions are compulsory.
b.   Marks are indicated against each question

1 Find the value of $\sqrt[4]{(81)}^{-2}$ 1

2 Find the zero of the polynomial p(x) = ax + b   1

3. Simplify: $(\sqrt{3} + 2)^2$ 1

4. Find the remainder when $4x^3 - 3x^2 + 2x + 4$ is divided by x + 2   2

5. Express $1.\overline{323}$ in the form $\frac{p}{q}$, where p and q are integers, q≠0   2

6. Represent $\sqrt{5}$ on the number line.   3

7. Write $\sqrt[3]{4}$, $\sqrt{3}$, $\sqrt[4]{6}$ in ascending order.   3

8. If $\frac{3+\sqrt{7}}{3-\sqrt{7}}$ = a + b$\sqrt{7}$, find the values of 'a' and ' b'   3

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   4

   respectively. Find 'a' and 'b'

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