ACE Academy — Inspiring the Winner in You

Std. : 9th CBSE	**Date : 06/05/2017**
Sub : Maths	**Marks : 40** **Time : 1.5 hrs.**

Ch:1 Real Numbers
Ch:2 Polynomials

1. Find 6 Rational numbers between $\frac{1}{3}$ and $\frac{6}{7}$ …… **[02]**

2. Express $\frac{7}{8}$ in decimal fraction …….. **[02]**

3. Find p/q form of following **[03]**

   (i) $0.6\overline{7}$ (ii) $1.\overline{37}$ (iii) $0.\overline{009}$ (iv) $7.3\overline{79}$ **[12]**

4. Find/Evaluate with the help of identities: **(Any Three)** **[06]**

   (i) $\left(\sqrt{2}+\sqrt{7}\right)^2$

   (ii) $\left(3-\sqrt{11}\right)^2$

   (iii) $\left(3\sqrt{2}-\sqrt{5}\right)\left(3\sqrt{2}+\sqrt{5}\right)$

   (iv) $\left(\sqrt{11}+9\right)\left(\sqrt{11}-7\right)$

5. Represent $\sqrt{13}$ on the number line **[03]**

6. Evaluate …….. **[06]**

   (i) $(64)^{\frac{1}{3}}$ (ii) $(324)^{\frac{1}{2}}$ (iii) $(125)^{\frac{-1}{3}}$

7. Rationalize denominator …… **[02]**

   $$\frac{1}{\sqrt{7}+3\sqrt{11}}$$

8. Find Remailer with the help of long Division Method **[02]**

   $x+2)x^4+3x^3-9x^2+7x+6($

9. Factories …….. **[02]**

   $x^3+13x^2+32x+20$

Best of Luck