ACE Academy — Inspiring the Winner in You

Std. : 9th ICSE (Zydus) **Date : 23/04/2017**

Sub : Maths **Marks : 30 Time : 1 hr.**

Chp: 1 Rational Numbers

Q.1 Find out $\frac{p}{q}$ form of a number of the following ……. **[09]**

(i) $0.\sqrt{23}$ (ii) $8.98\overline{7}$ (iii) $2.11\overline{11}$

Q.2 Find out 7 rational numbers between $\frac{3}{7}$ and $\frac{9}{11}$ ……. **[02]**

Q.3 Prove that $\sqrt[3]{7}$ is an irrational number …….. **[03]**

Q.4 Represent $\sqrt{72}$ on the number line …… **[03]**

Q.5 Find three irrational numbers between $\sqrt[5]{7}$ and $\sqrt[4]{8}$ …….. **[02]**

Q.6 Compare the numbers of the fall, which is greater! ……. **[06]**

(i) $\sqrt{11}$ and $\sqrt[2]{7}$

(ii) $\sqrt[5]{20}$ and $\sqrt[5]{27}$

(iii) $\sqrt[3]{5}$ and $\sqrt[6]{7}$

Q.7 Rationalise the denominator $\frac{1}{\sqrt{2}+\sqrt{5}-1}$ ……. **[03]**

Q.8 $\frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}-\frac{\sqrt{5}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}=a+\frac{8}{11}\sqrt{6}$ find the value of a and b …….. **[02]**

Best of Luck