

Weekly Test

Std – 9th EM/SE

Sub: Alg

Topic : 2

Marks - 20

Date :-

Q. 1 Answer the following. (02)

- 1) The number 0.4 in $\frac{p}{q}$ form is -----
- (a) $\frac{4}{9}$ (b) $\frac{40}{9}$ (c) $\frac{3.6}{9}$ (d) $\frac{36}{9}$
- 2) The value of $|12 - (13 + 7) \times 4|$ is -----
- (a) - 68 (b) 68 (c) - 32 (d) 32.

Q. 2 Answer the following. (Any 4) (08)

- 1) Write the rational numbers between the two numbers given below.
-2. 3 and -2.33
- 2) Compare the following surds. $7, 2\sqrt{5}$
- 3) Write the following numbers in $\frac{p}{q}$ form. $29.\overline{568}$
- 4) Divide, and write the answer in the simplest form. $\sqrt{310} \div \sqrt{5}$
- 5) Simplify : $\sqrt{7} - \frac{3}{5}\sqrt{7} + 2\sqrt{7}$

Q. 3 Answer the following. (Any 2) (06)

- 1) Prove that $3 + \sqrt{5}$ is an irrational number.
- 2) Multiply : $(3\sqrt{2} - \sqrt{3})(4\sqrt{3} - \sqrt{2})$
- 3) Rationalize the denomination : $\frac{3}{2\sqrt{5} - 3\sqrt{2}}$

Q. 4 Answer the following. (Any 1) (04)

- 1) Represent the numbers $\sqrt{5}$ on a number line.
- 2) Simplify : $5\sqrt{3} + 2\sqrt{27} + \frac{1}{\sqrt{3}}$