Revision Test Paper-I

(Based on Chapters 1 to 4)

A. Multiple Choice Questions (MCQS).

Tick (✓) the correct option :

1. The rational numbers whose numerators and denominators are either positive or negative are called _____.

   (a) Positive rational numbers ☐ (b) equivalent numbers ☐

   (c) negative rational numbers ☐ (d) fractional numbers ☐

2. The distance between –5 and 0.8 on a number line is _____.

   (a) 5.8 units ☐ (b) 6.8 units ☐

   (c) 7.2 units ☐ (d) 4.3 units ☐

3. After adding $\frac{-4}{7}$ and $\frac{-9}{28}$ we get _____.

   (a) $\frac{-16}{28}$ ☐ (b) $\frac{-5}{28}$ ☐ (c) $\frac{-25}{28}$ ☐ (d) $\frac{-13}{28}$ ☐

4. The natural number having 0 or 5 at its units place are said to be divisible by _____.

   (a) 6 ☐ (b) 7 ☐ (c) 5 ☐ (d) 8 ☐

5. A radical which has a rational factor other than unity is called _____.

   (a) Mixed radical ☐ (b) Pure radical ☐

   (c) Square root radical ☐ (d) Fractional radical ☐

6. The additive inverse of $\frac{3}{7}$ is _____.

   (a) 0 ☐ (b) $\frac{7}{3}$ ☐ (c) $\frac{-3}{7}$ ☐ (d) $\frac{0}{7}$ ☐

7. When zero is added to any rational number the sum is the _____.

   (a) rational number itself ☐ (b) zero ☐

   (c) one ☐ (d) none of these ☐

8. Which number is divisible by 11?

   (a) 345693 ☐ (b) 7204250 ☐

   (c) 3240237 ☐ (d) none of these ☐

9. The value of x, if $2^3 + 2^x = 2^4$.

(a) 3 (b) 8

(c) 2 (d) 4

10. What is the value of $11^{7/3} \div 11^{1/3}$?

(a) 111 (b) 144

(c) 101 (d) 121

B. Fill in the blanks of the following:

1. The numbers –3, –2, –1, 0, 1, 2, 3 ..... n are _____.
2. Diagonal method is used to find the _____ of any number.
3. There exist _____ rational numbers between two given numbers.
4. The number is divisible by 10 if it has _____.
5. Multiplicative inverse of $\frac{a}{b}$ is _____.
6. Numbers like –3, –2, –1 are called _____.
7. The reciprocal of $\frac{1}{a}$, where $a \neq 0$ is _____.
8. A radical that contain no radical factors other than 1 is called a _____.
9. The system of writing numbers in the form of powers is called _____.
10. The product of 4^5 and 4^3 is _____.

C. Write 'T' for true statement and 'F' for false statement :

1. 9999999 is the largest number of seven digit.
2. The product of a rational number and its reciprocal is always zero.
3. $\frac{a}{b} + 0 = 0 + \frac{a}{b} = 0$
4. There are infinite numbers of rational numbers between $\frac{a}{b}$ and $\frac{c}{d}$.
5. The number puzzles are based on algebraic identities.
6. Exponents are powers to the numbers called radical.
7. $\sqrt{5}$ is a radical of index 2.
8. A number is divisible by 9, if the sum of its digits is divisible by 9.
9. A number of the form of $\frac{p}{q}$ where p and q are integers and $q \neq 0$ is called a rational number.
10. $\frac{a}{b} \div 0$ not defined.