

## CHAPTER - I

### RATIONAL NUMBERS

#### Questions carrying 1 Mark each :-

- Q.1 Is zero a rational number? If yes, give two examples.
- Q.2 What are the identity elements for the addition and multiplication of rational numbers?

- Q.3 Name the property used in the following :-

$$+\frac{6}{6} + \frac{+6}{6} = 1$$

- Q.4 Find the additive inverse of  $\frac{5}{5}$  and  $\frac{-5}{10}$

- Q.5 Write the reciprocal of 0.

#### Questions carrying 2 marks each :-

- Q.6 Using property find the value of  $\frac{2}{7} \times \frac{-2}{2} - \frac{2}{2} \times \frac{2}{2} - \frac{2}{2} \times \frac{2}{7}$
- Q.7 Is 0.5 the multiplicative inverse of  $2\frac{2}{5}$ ? Why or Why not?
- Q.8 Write four rational numbers which are greater than -31 and less than 4.

#### Questions carrying 3 marks each :-

- Q.9 Represent  $-\frac{6}{6}$ ,  $\frac{6}{6}$  and  $\frac{-6}{11}$  on number line.
- Q.10 Find ten rational numbers between 2 and 3.
- Q.11 Find the value of  $\frac{2}{x} + \frac{2}{y}x$ ,  $x = \frac{+2}{2}x$ ,  $y = \frac{2}{5}$ .

**Multiple Choice Questions Carrying 1 Mark each :-**

Q.12 Between any two rational numbers, there lie :

- a) two rational number
- b) No rational number
- c) infinite rational numbers
- d) infinite fractions

Q.13 The additive inverse of  $\frac{a}{b}$  is

- a)  $-\frac{b}{a}$     b)  $\frac{b}{a}$     c)  $\frac{a}{b}$     d)  $-\frac{a}{b}$

Q.14 Addition is associative for

- a) Natural numbers
- b) Whole Numbers
- c) Rational Numbers
- d) All of these

Q.15 Rational numbers are not closed under :

- a) Subtraction
- b) Division
- c) Addition
- d) Multiplication