## VIII Mathematics Chapter- Rational Number CBSE TEST PAPER-01

- 1. Write:
- (i) The rational number that does not have a reciprocal.
- (ii) The rational numbers that is equal to their reciprocals.
- (iii) The rational number that is equal to its negative.
- (iv) The additive inverse of a negative number
- 2. Fill in the blanks.
- (i) Zero has \_\_\_\_\_ reciprocal.
- (ii) The numbers \_\_\_\_\_\_ and \_\_\_\_\_ are their own reciprocals
- (iii) The reciprocal of 5 is \_\_\_\_\_.
- (v) The product of two rational numbers is always a \_\_\_\_\_
- (vi) The reciprocal of a positive rational number is \_\_\_\_\_
- (vii)The number which can be written in the form of p/q, where  $q\neq 0$ , is called \_\_\_\_\_ number.
- (A) Rational (B) Irrational (C) Real (D) Natural
- (viii) All rational numbers have multiplicative inverse except
- (A) -1 (B) 1 (C) 0 (D) None
- (ix)The sum of any two rational numbers is a \_\_\_\_\_ number.
- (A) Even (B) Real (C) Rational (D) Natural
- (x). 1 A rational number p/q is said to be in the simplest form if the HCF of p and q is
- (a) 2 (b) 1 (c) 0 (d) 3
- (xi) Between any two distinct rational numbers there exist
- (a) Finite rational numbers (b) Infinite rational numbers
- (a) No rational number (d) none of the above
- (xii) A rational number a/b is greater than c/d if
- (a) ad > bc (b) ad < bc (c) ad = bc (d) ad  $\neq$  bc
- (xiii) .4 Is zero a rational number
- (a) Yes (b) No (c) Can't say
- (xiv) Rational numbers are not closed under
- (a) Addition (b) Multiplication (c) Division (d) Subtraction
- (xv) If the additive inverse of "b" is "a" then:
- (A) ab=1 (B) a=b (C) a+b=0 (D) a-b=0
- 3. Solve:
- 1. If you subtract 1/2 from a number and multiply the result by 1/2, you get 1/8. What is the number?
- 2. Three consecutive integers are such that when they are taken in increasing order and multiplied by 2, 3, and 4 respectively, they add up to 74. Find these numbers.
- 4. Represent the following rational numbers on the number line
- (a) -1/4 (b) -11/5 (c) -38/5 (d) -7/10 (e) -5/3
- 5. Find two rational numbers between (i) -2 and 2. (ii) -1 and 0.
- 6. Insert six rational numbers between (i) -1/3 and -2/3 (ii)  $\frac{1}{4}$  and  $\frac{1}{2}$