## 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 $\qquad$ reciprocal.
(ii) The numbers $\qquad$ and $\qquad$ are their own reciprocals
(iii) The reciprocal of - 5 is $\qquad$ .
(v) The product of two rational numbers is always a $\qquad$ .
(vi) The reciprocal of a positive rational number is $\qquad$ .
(vii)The number which can be written in the form of $p / q$, where $q \neq 0$, is called $\qquad$ number.
(A) Rational
(B) Irrational
(C) Real
(D) Natural
(viii) All rational numbers have multiplicative inverse except $\qquad$ .
(A) -1 (B) 1 (C) 0 (D) None
(ix)The sum of any two rational numbers is a $\qquad$ 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)
(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 $>\mathrm{bc}$ (b) ad $<\mathrm{bc}$ (c) $\mathrm{ad}=\mathrm{bc}$ (d) $\mathrm{ad} \neq \mathrm{bc}$
(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) $\mathrm{ab}=1$
(B) $a=b(C) a+b=0$
(D) $a-b=0$
3. Solve:
4. If you subtract $1 / 2$ from a number and multiply the result by $1 / 2$, you get $1 / 8$. What is the number?
5. 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.
6. Represent the following rational numbers on the number line
(a) $-1 / 4$ (b) $-11 / 5$
(c) $-38 / 5$
(d) $-7 / 10$
(e) $-5 / 3$
7. Find two rational numbers between (i) -2 and 2 . (ii) -1 and 0 .
8. Insert six rational numbers between (i) $-1 / 3$ and $-2 / 3$ (ii) $1 / 4$ and $1 / 2$
