RATIONAL NUMBERS (REVISION)

V. short answer type questions: -

   (i)   The rational number that does not have a reciprocal.

Solution: 0 is a rational number but its reciprocal is not defined.

   (ii)   The rational numbers that are equal to their reciprocals.

Solution: 1 and –1are the rational numbers that are equal to their reciprocals.

   (iii)   The rational number that is equal to its negative.

Solution:0 is the rational number that is equal to its negative.

Fill in the blanks.

   (i)   Zero has _____ reciprocal.

Solution: Zero has no reciprocal.

   (ii)   The numbers _____ and _____ are their own reciprocals.

Solution: The numbers 1, and –1 are their own reciprocals.

   (iii)   The reciprocal of –5 is _____.

Solution: The reciprocal of –5 is $-\frac{1}{5}$

   (iv)   Reciprocal of $\frac{1}{x}$ where x ≠ 0 is _____.

Solution: The reciprocal of $\frac{1}{x}$ where x ≠ 0 is x.

   (v)   The product of two rational numbers is always a _____.

Solution: Rational number

   (vi)   The reciprocal of a positive rational number is _____.

Solution: Positive Rational number