

## **CLASS - VII**

## MATHEMATICS

Date: -28/04/2020

## **CHAPTER 4 - RATIONAL NUMBERS**

- ★ Watch the online videos of "Rational Numbers Lecture 5 & 6 " from Optimum Online E-Learning Platform and try to comprehend the concepts of Rational numbers. After that try to solve the questions given in your assignment.
- ★ Lecture No.. 05
- ★ Lecture No.06
- 1. In each of the following, find an equivalent form of the rational number having a common denominator:
- i. (3/4) and (5/12)
- ii. (2/3), (7/6) and (11/12)
- iii. (5/7), (3/8), (9/14) and (20/21)
  - 2. Determine whether the following rational numbers are in the lowest form or not:
- i. (65/84)
- ii. (-15/32)
- iii. (24/128)
- iv. (-56/-32)
  - 3. Express each of the following rational numbers to the lowest form:
- i. (4/22)
- ii. (-36/180)
- iii. (132/-428)
- iv. (-32/-56)
  - 4. Which of the following rational numbers are equal?
- i. (-9/12) and (8/-12)
- ii. (-16/20) and (20/-25)
- iii. (-7/21) and (3/-9)
- iv. (-8/-14) and (13/21)
  - 5. In each of the following pairs represent a pair of equivalent rational numbers, find the values of x.
  - i. (2/3) and (5/x)

- ii. (-3/7) and (x/4)
- iii. (3/5) and (x/-25)
- iv. (13/6) and (-65/x)
  - 6. In each of the following, fill in the blanks so as to make the statement true:
- i. A number which can be expressed in the form p/q, where p and q are integers and q is not equal to zero, is called a .....
- ii. If the integers p and q have no common divisor other than 1 and q is positive, then the rational number (p/q) is said to be in the ....
- iii. Two rational numbers are said to be equal, if they have the same .... form
- iv. If m is a common divisor of a and b, then  $(a/b) = (a \div m)/...$
- v. If p and q are positive Integers, then p/q is a ..... rational number and (p/-q) is a ..... rational number.
- vi. The standard form of -1 is ...
- vii. If (p/q) is a rational number, then q cannot be ....
- viii. Two rational numbers with different numerators are equal, if their numerators are in the same .... as their denominators.
  - 7. In each of the following state if the statement is true (T) or false (F):
  - i. The quotient of two integers is always an integer.
  - ii. Every integer is a rational number.
  - iii. Every rational number is an integer.
  - iv. Every traction is a rational number.
  - v. Every rational number is a fraction.
  - vi. If a/b is a rational number and m any integer, then  $(a/b) = (a \times m)/(b \times m)$
- vii. Two rational numbers with different numerators cannot be equal.
- viii. 8 can be written as a rational number with any integer as denominator.
- ix. 8 can be written as a rational number with any integer as numerator.
- x. (2/3) is equal to (4/6).

\*\*Link of Optimum Online E-Learning Platform:-<u>https://www.optimumschool.net/online/login.php</u> In case of any query call at +91-9818033213.