ST. LAWRENCE HIGH SCHOOL

TOPIC –Real Number

Subject : Mathematics   **Class-9**   **F. M. 15**

WORKSHEET NO. - 13   **First term**   **Date: 27.02.2021**

Q.1) __Choose the correct option__: **(1x15=15)**

i) The decimal expansion of $\sqrt{5}$ is
          a) a terminating decimal   b) a terminating or recurring decimal
c) a non terminating and non recurring decimal d) None of them

ii) The product of two irrational numbers is
    a) always irrational number   b) always rational number   c) always an
    integer   d) rational or irrational number.

iii) π and $\frac{22}{7}$ are
          a)always rational number   b)always irrational number
          c) π is rational and $\frac{22}{7}$ is irrational.   d)π is irrational and $\frac{22}{7}$ is rational

iv)Between two rational numbers, there exists
a) no rational number   b) only one rational number
c)infinite numbers of rational numbers   d) no irrational number

v)Between two irrational numbers, there exists
          a)no rational number   b)only one irrational number
          c)infinite numbers of irrational numbers   d)no irrational number

vi) The number 0 is
a) whole number but not integer   b)integer but not rational   c)rational but not real number
d)whole number, integer, rational and real number but not irrational.

vii)The number – 5 is
a)a natural number   b) a whole number   c) a rational number   d)an irrational number

viii)The difference of two whole numbers is always
          a) a whole number   b) a natural number   c)a rational numberd) an irrational number

ix) The number $\sqrt{7}$
          a)lies between 1 and 2   b) lies between 2 and 3   c) lies between 3 and 4   d)lies between 6 and 7

x)In the triangle ABC, if $\underline{/C}$ is a right angle then
a)$AB^2 + BC^2 = AC^2$ b)$AC^2 + BC^2 = AB^2$ c)$AB^2 + AC^2 = BC^2$ d)AC + BC = AB

xi) The product of two irrational number ($2 +\sqrt{7}$) and ($2 - \sqrt{7}$) is a positive integer whole value is
          a)   - 4   b)- 3   c) - 7   d)None of these

xii)Which of the numbers given below is multiplied with $\sqrt{3}$ to give a rational number?
          a)$\sqrt{2}$ b) $\sqrt{9}$ c) $2\sqrt{3}$ d) $\sqrt{5}$

xiii) The number of irrational numbers between two irrational numbers is
          a)   One   b) two   c)none   d)infinite

xiv) The number of irrational numbers between two rational numbers is
a)none   b) one   c) two   d) infinite

xv) Of the numbers given below which one is not irrational?
          a) $2 + \sqrt{3}$ b) $3 + \sqrt{2}$ c) $5 +\sqrt{4}$ d) $7 - \sqrt{5}$

-ChaitaliRoy