ST. LAWRENCE HIGH SCHOOL

TOPIC –Miscellaneous

Subject : Mathematics Class-9 F. M. 15

WORKSHEET NO. - 16 First term Date: 08.03.2021

Q.1) Choose the correct option: **(1x15=15)**

i) The simplest value of $-3\sqrt{2} + 2(\sqrt{3} - \sqrt{2}) - 5(\sqrt{3} - \sqrt{2})$ =

a) $-3\sqrt{3}$ b) $3\sqrt{3}$ c) 3 d) -3

ii) The irrational number $\sqrt{7}$ lies between two integers _____ and _____

a) 2 & 4 b) 2 &3 c) 1 &3 d)3 & 4

iii) The irrational number $\sqrt{11}$ lies between the two integers _____ and _____

a) 2& 4 b)) 2 & 3 c) 3 & 4 d)1 & 3

iv)The simplest value of($5 + \sqrt{6}$) ($5 - \sqrt{6}$) is

a) 12 b) 15 c)10 d) 19

v)The greater of $4\sqrt{5}$ and $5\sqrt{3}$ is _____

a)both equal b)$5\sqrt{3}$ c)$4\sqrt{5}$ d)none of these

vi) The greater of the irrational number $\sqrt{5} + \sqrt{3}$ and $\sqrt{6} + \sqrt{2}$ is _____

a) both equal b)$\sqrt{5} + \sqrt{3}$ c)none of these d)$\sqrt{6} + \sqrt{2}$

vii)The simplest value of $\sqrt{28} - \sqrt{175} + \sqrt{112}$ is _____

a)7 b) $\sqrt{7}$ c) $7\sqrt{5}$ d)5

viii)The simplest value of $(\sqrt{5} + \sqrt{3})(\sqrt{3} - \sqrt{2})(\sqrt{5} - \sqrt{3})(\sqrt{3}+\sqrt{2})$ is

a) 2 b) 4 c)5 d) 8

ix) A rational number lies between $\sqrt{2}$ and $\sqrt{3}$ is

a)$\frac{2}{3}$ b) $\frac{1}{2}$ c) 4 d)$\frac{3}{2}$

x)In a rhombus ABCD $\angle ABC = 60^o$,. The ratio of their diagonals AC and BD is _____

a)3 : 1 b)$\sqrt{3}$: 1 c)1 : $\sqrt{3}$ d)1 : 3

xi)The point of intersection of the diagonals of a rectangle ABCD is O. If $\angle AOB = 120^o$, then the value of $\angle ODC$ is

a) 60^o b) 45^o c) 75^o d)30^o

xii) If the greater angle of a parallelogram is 54^o more than twice the smaller angle, then the greater angle is ____

a)138^o b) 75^o c)45^o d) 30^o

xiii) In the rhombus ABCD, if $\angle ACB = 40^o$, then $\angle ADB$ is _____

a) 60^o b) 45^o c)30^o d)50^o

xiv) In the parallelogram ABCD, P is the midpoint of the diagonal BD. If PB bisects $\angle ABC$, then the measure of $\angle APB$ is

a)60^o b) 45^o c) 90^o d) 30^o

xv)The diagonals of a parallelogram _____ each other.

a) intersect b)bisect c)equal d)none of these

-Chaitali Roy