ST. LAWRENCE HIGH SCHOOL

TOPIC –Revision

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

WORKSHEET NO. - 8 **Second Term** **Date: 30.11.2020**

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

i) The degree of a constant polynomial except zero is
a) 0 b) 1 c) 2 d) undefined

ii) If the distance of the point (3, x) from origin is 5 units, then the value of x is
a) ± 3 b) ± 4 c) ± 5 d) ± 2

iii) The equations ax + 2y = 5, and (a+1)x - 3y = 4, will have no solution if the value of a is
a)2/5 b) 2 c) - 2/5 d) - 2

iv) If $4 \times 5^x = 500$, then the value of x^x is
a) 8 b) 1 c) 64 d) 27

v) In a polynomial f(x), is f(-1/2) = 0, then one of the factor of f(x) is
a) 2x - 1 b) 2x + 1 c)x - 1 d) x + 1

vi) The length of the side of an equilateral triangle is 6 cm. The radius of the circumcircle of the triangle is
a) $\sqrt{3}\ cm$ b) $3\sqrt{3}\ cm$ c) $2\sqrt{3}\ cm$ d) $4\sqrt{3}\ cm$

vii) In 1 – 5, 6 – 10, …… the length of the class is
a)4 b) 4.5 c) 5 d) 5.5

viii)Which of the following is the equation of a straight line parallel to y axis?
a) x = y/2 b)y = 2 c) y = x d) x = 5

ix) Whena shirt is sold at ₹360, the loss is 10%. The cost price of the shirt is
a) ₹ 380 b) ₹ 400 c) ₹ 420 d)₹ 450

x) If $4^x = 8^3$, then the value of x is
a) 3/2 b) 9c)3 d)9/2

xi) The value of $25^3 - 75^3 + 50^3 + 3 \times 25 \times 50 \times 75$ is
a) 150 b) 25 c) 0 d)50

xii) The width of a circular ring is 5 cm. The difference of the ex-radius and in-radius of the circle is
a) 5 cm b)2.5 cm c) 10 cm d)None of these

xiii) Co-ordinates of the ends of the diameter of a circle are (7,9) and (-1,3). Then the co-ordinatesof its centre is
a) (3,3) b) (4,6) c) (3, - 3) d)(4, - 6)

xiv) The length of the diagonal of a square is $12\sqrt{2}\ cm$. The area of the square is
a) 288 sq. cm b) 144 sq. cm c) 72 sq. cm d) 18 sq. cm

xv) If $x^2 - px + 12 = (x - 3)(x - a)$ is an identity, then the value of a and p is
a) a = 4, p = 7 b) a = 7, p = 4 c)a= 4, p = -7 d)a = -4, p = 7

-Chaitali Roy