TOPIC –Revision

Subject : Mathematics   Class-9   Second Term   F. M. 15

WORKSHEET NO. - 8   Solutions   Date: 30.11.2020

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

i)   The degree of a constant polynomial except zero is
   a) 0

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

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

iv)   If 4 x 5^x = 500, then the value of x^x is
      d) 27

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

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

vii) In 1 – 5, 6 – 10, ……… the length of the class is
b) 4.5

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

ix) Whena shirt is sold at ₹360, the loss is 10%. The cost price of the shirt is
 b) ₹ 400

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

xi) The value of $25^3 – 75^3 + 50^3$ + 3 x 25 x 50 x 75 is
c) 0

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

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)

xiv) The length of the diagonal of a square is $12\sqrt{2}\ cm$. The area of the square is
b) 144 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

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