



## ST. LAWRENCE HIGH SCHOOL

## **TOPIC** - Revision

**Subject : Mathematics** 

**Class-9** Second Term

F. M. 15

**WORKSHEET NO.-7** 

is

**Solutions** 

Date: 28.11.2020

## Q.1) Choose the correct option:

 $(1 \times 15 = 15)$ 

1)If  $4^x = 8^4$ , then x is equal to

c) 6

- 2) If kx + 1 is a factor of the polynomial  $kx^2$  5x 3, then the value of k will be
- 3) If the cost price if 10 pens is equal to the selling price of 8 pens, then percentage of profit or loss
  - a) 25% profit
  - 4) If a + b + c = 0, then the value of  $\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}$  is d) 3
- 5) D, E and F are respectively the midpoints of the sides BC, CA and AB of the triangle ABC. FE intersects AD at the point O. IF AD = 6 cm, then length of AO is
  - b) 3 cm
  - 6) If for the polynomial f(x),  $f(-\frac{1}{2}) = 0$ , then one factor of f(x) is
    - b) 2x + 1
- 7) The area of the trapezium is 132 sq. cms. The length of one parallel side of it is 23 cm and its height is 6 cm. The length of the other parallel side is
  - c)21 cm
- 8) The length of the diameter of a circle is equal to the length of the side of a square. The ratio of their perimeters is
  - b) π:4
  - 9) If  $2^x = 3^y = 6^{-z}$ , then the value of xy + yz + zx is
    - d) (
  - 10) The coordinates of centroid of a triangle having vertices (a-b, b-c), (-a, -b) and (b, c) are d) (0, 0)
  - 11) If  $\log_{10} x \log_{10} \sqrt{x} = 1$ , then the value of x is
  - 12) Which among the numbers  $4^{30}$ ,  $3^{40}$ ,  $2^{50}$  and  $10^{20}$  is least?
  - 13) If the polynomial  $x^3 + px^2 12x + 8$  is divisible by (x + 2), then the value of p is
- 14) There is a rectangular area 6 m long and 4 m broad. For paving it with tiles 2 dcm square, how many tiles will be required?
  - c) 600
  - 15) The three points (2, 0), (0, 3) and (t, t) will be collinear when t is equal to d) none of these