ST. LAWRENCE HIGH SCHOOL

TOPIC- POLYNOMIAL

Sub: Mathematics **Class: 9** **F. M. 15**

WORK SHEET NO. -5 **SOLUTION** **Date: 11.4.2020**

Choose the correct answer: 1x15=15

1. If $f(x) = x^3 - 3/x$, then the value of f(3) is _____.

   c) 26

2. If $f(x) = 3x + 5$, then $f(x) + f(-x)$ = _____.

   c) 10

3. If $8x^3+4x+1$ is divided by (2x+1), then the remainder will be _____.

   d) -2

4. If (x-2) and (2x-1) are the factors of the polynomial $px^2 + 5x + r$, then

   c) p=r

5. If (x+2) is a factor of polynomial $x^3 + kx^2 + 10x + 8$, then k = _____.

   a) 5

6. The root of the polynomial $f(x) = 2x + 1$ is _____.

   d) -1/2

7. (x+ 3) is a factor of $x^3 + 6x^2 + 12x + k$ if k = _____.

   c) 9

8. If 30 is the remainder when $x^3 + 3x^2 + 3x + a$ is divided by (x-2) then a = _____.

   d) 4

9. The zeroes of the polynomial $2x^2 + 4x$ are _____.

   c) 0, -2

10. The polynomial $x^2 – x – 12$ is divisible by _____.
    b) x+3

11. If $f(x) = x^2 -3x +5$, then f(2) = _____.
    c) 3

12. For what value of k will the polynomial $k+4x-3x^2-x^3$ be completely divisible by (x+3)?
    c) 12

13. What will be the remainder if $x^3 + 4x^2 + 4x -3$ is divided by x?
    d) -3

14. If $f(x) = x^2 +ax +b$ and f(1) = 1, f(2)=2 then f(3) = _____.
    c) 5

15. What will be the remainder if polynomial $8x^3 -4x^2 + 4x +5$ is divided by (2x + 1) ?
    b) 1

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