# SUBJECT:MATHEMATICS,CLASS:VII CHAPTER:6(ALGEBRAIC EXPRESSIONS) WORK SHEET (BASIC)

(1Mark)

1. Which one of the following is a Monomial.

i)4y. ii)3x+2 iii) 2xz+y. iv) 5x+6y

2.X+X+X+X=\_\_\_\_\_

i)4. ii)4X iii)3X. iv)none of these

3.A Binomial has \_\_\_\_\_ terms.

4.Z×3Z=\_\_\_\_\_

5.Write any 2 examples of Monomial.

6. Write the coefficient in the expression, 3x

7. Write the coefficients of 12xy.

8. Which one of the following is not a binomial.

i)4y. ii)3x+2 iii) 2xz+y. iv) 5x+6y

9.x+y+2x+y=\_\_\_\_\_.

10.What do you mean by binomial.

(2makrs)

11.Find the product,  $4X \times 3Y \times 5$ .

12. Find the product, (3x+2)(5)

 $13.4.1X \times 3.4Y \times 5.6Z$  find the product.

14. Write the difference between monomial and binomial with examples?

15. What do you mean by degree of Polynomial? write the degree of 2x+y.

16. Multiply the coefficients of the expression 4x+3y-2z.

17.Add the coefficients of the expression, -2x+3y-10.

18.what do you mean by zero of a Polynomial.

19. Find the product of  $4x \times 0 \times 24y$ .

20. Write types of Polynomial.

(3mark)

21. Solve the following (3x+7). (2y+1).

22. Find the product of (1+x+y) (2x+y).

23.Solve and verify your answer with these values; x = 1,y=-2

(13**x**+7). (2**y**-1)

24. Find the perimeter of the square field whose one side is 5z unit.

25. Write the HCF of following monomial, 24xz,3x,12yx.

26. Factories. 2x + 30yx.

27. Find the area of the rectangle whose length is 4 times of it's breath, where breath is 3a unit.

(4 marks)

28. Factorise the expression: $x+3x + x^2$ 

19.Factorise the expression: $21x + 3xy + 6x^2$ 

20. Factorise the expression: x + ax + ab + b

.....

# SUBJECT:MATHEMATICS ,CLASS:VII CHAPTER: 6(ALGEBRAIC EXPRESSIONS) WORKSHEET(STANDARD)

## (1MARK)

1. What is the power of X in the product  $X \times X$ . iii)3. iv)none of these i)4. ii)2. 2. Which one of the following is a binomial? i) 3x+5x ii) (5x)(3y) iii) 5x+1 iv) x+2x+3x $3.Z \times (3 + Z) =$ 4. Write the definition of Binomial with example.  $5.3x + 5xy + 7x^2$ , write the coefficients in this expression. 6. Which one of the following is not a binomial.  $i)4y+3x^2$ . ii)3x+2x iii) 2xz+y. iv) 5x+67.  $2.3x \times 1.1x \times 2.5x$ , what is coefficient of the product. ii)4.325 ii)6.325 iii)3.325 iv)none of these 8. A monomial with power zero having \_\_\_\_\_\_ terms.  $9.Z \times (3 + 4Z) =$ 10.Write the definition of Polynomial with example.

## (2MARKS)

- 11. Find the product (3x+2)(5+2x).
- $12.3x + 5yz + 7x^2$ , write the product of coefficients in this expression.
- 13. Find the product (4.1X + 5.6Y)(1.2XY 3Y) and write all the coefficients.

14. Find the product(3x+2) (5+2xy+x) and write number of terms after multiplication.

### (3MARKS)

- 15. Solve (3x-7z). (2y-1) and verify your answer for x=1,y=-2,z=2.
- 16. Find the product,  $(1+x^2+y)$  (2x+z), and verify the answer for x=1,y=3,z=-2
- 17. Find the product and write the degree of the polynomial,(1+x+y) (2x+y)

(4MARKS)

18. Factorise the expression.: $x^2+ax+ab+bx - (a+x)$ 

19. Find the area of a triangle whose height is 6x unit & base is 14y unit.

20. Factorise the polynomial:  $X^4$  - 16.

# SUBJECT:MATHEMATICS ,CLASS:VII CHAPTER: 6(ALGEBRAIC EXPRESSIONS) <u>WORKSHEET( ADVANCED)</u>

## (1MARK)

1. Which one of the following is a binomial.

i)  $4y+3x^2$ . ii)3x+2x iii) 2xzxyz. iv)  $5\sqrt{x+6}$ 

2. One side of a square field is (x+4) unit. Find the perimeter of the field.

i)4+x unit ii)2(x+4) unit iii)16 unit iv)none of these

3.A Polynomial with power zero having \_\_\_\_\_\_ terms.

4. The HCF of 3z ,12zx,42xy is \_\_\_\_\_.

5.Write the definition of Polynomial with example, Give 2 examples that are not polynomials.

6., write the product of variables in the expression  $3x + 5yz + 7x^2$ 

(2 MARKS)

7. The dimensions of a rectangular field are (4.1X + 5.6Y), (X+1.5Z) units . Find the area of that field.

8. Find the product,  $(3x+12y^2)(5+2xy+x)$ 

(3MARKS)

9. Solve and verify (3x-7z). (2y-x-1) with these values x=0.1,y=-2.5,z=2.

(4MARKS)

10. Factorise the expression.

 $X^2$ + aX+ ab+bX – (a+X)(X+XY)

\*\*\*\*\*