

ASSIGNMENT No. 1

**SUBJECT: MATHS**

**CLASS: 8<sup>TH</sup>**

**TOPIC: ALGEBRAIC EXPRESSIONS**

Q1 The degree of the expression  $2x-4xy^2+5x^2y^3$

Q2 The number of terms in a binomial is

Q3 What must be subtracted from  $2x^2-3x+4$  to get  $x^2+2x-1$ ?

Q4 The product of  $3x^2$  and  $-5xy^3$  is

Q5 The product of  $(x+3)$  and  $(2x-1)$  is

Q6 The product of  $(x+y)(x-y)(x^2+y^2)$  is

Q7 What will be the remainder when  $3x^2-2x+1$  is divided by  $x+5$ ?

Q8 What will be the remainder when  $x^6-3x^2-10$  is divided by  $x^3-1$ ?

Q9 What must be added to  $y^3-y^2-3y-2$  to get  $y^2-5y+6$ ?

Q9 Find the value of  $\langle a \rangle$  if  $(2x-5)(x+3)=2x^2+x+a$ ?

Q10 When  $(3y+1)(2y-3)=6y^2+ay-3$ , what will be the value of  $\langle a \rangle$ ?

Q11 If  $x=3, y=2$ , then  $(x-y)(x^2+xy+y^2)$  is

Q12 Add (i)  $3m^2+8m-4$  and  $6m^2-m+7$                       (ii)  $a^2+2ab$  and  $-3ab-d^2$

Q13 Simplify (i)  $4x-(-8y-3x)$                                       (ii)  $-(49-a^2)-9a^2$

Q14 Subtract  $72pq-30q^2-15p^2$  from  $30p^2+40q^2-12pq$  ?

Q15 The sides of a triangle are  $3x+1$ ,  $4x+2$  and  $5x$ . Find the perimeter of the triangle.