VI- Mathematics Assignment No-02- Algebra.

Q1. Anil is x years old. Express the following in algebraic form:

(i) Anil's age after a period of 15 years

(ii) 5 times Anil's age 5 years ago

(iii) What is his father's age if he is 15 years more than double of Anil's age?

(iv) The present age of Anil's cousin, if his cousin is three years less than one third Anil's age five years ago.

(v) Find the age of Anil's gradfather, if his age is double his son's age and the age of Anil's father is 20 years more than Anil's age.

(Q2) Write in algebraic language –

(i) "The sum of three consecutive integers, of which x is the middle integer."

(ii) The total cost of x stamps of 50 P and y stamps of 25P.

Cont-Pg-2

(Q3) Sabina think of a number x, add 5 to it. The result is then multiplied by 4. The final result is 56. Form the algebraic statement

(Q4) The total numbers of apples in x boxes if each box contains y apples.

(Q5) The perimeter of a square if each of its side is x units

(Q6) The circumference of a circle is 2π times its radius. If c is the circumference and 'r' is the radius. Express it in symbols.

(Q7) The total distance travelled by a car in x hours at a constant speed of y km/hr.

(Q8) The perimeter (p) of a rectangle is twice the sum of its length (l) and width (b). Express it in symbols.

Cont-Pg-3 →

(Q9) Add 13 and 14 in two ways using Commutative property

(Q10) Add 25, 26, 27 in two different ways by using Associative property.

(Q11) Verify the addition by using Distributive property for numbers 13, 25, 30

(Q12) Arun travelled $5x$ km on foot, $3y$ km by cycle and 10 km by bus. Express the total distance covered by him by an algebraic expression.

ANSWERS-

(Q1) i) $(x+15)$ yrs ii) $5(x-5)$ yrs iii) $(2x+15)$ yrs iv) $\frac{1}{3}(x-3)-5$ yrs v) $2(x+20)$ yrs.	(Q3) $4(x+5)=56$	(Q8) $p = 2(l+b)$
	(Q4) xy apples	(Q9) $13+14=27$ $14+13=27$
	(Q5) $4x$ units	(Q10) $25+(26+27)=78$ $(25+26)+27=78$
Q2(i) $(x-1)+x+(x+1)$ ii) $(50x+25y)$ Paisa	(Q6) $C=2\pi r$	(Q11) $13\times(25+30)=13\times25+13\times30$
	(Q7) xy Km	(Q12) Total Distance Covered $(5x+3y+10)$ km.