CLASS 7

WORKSHEET#3

CH:SETS

Q1. Write each of the following sets in set builder form.

i. A={4,6,8,9,10,12,14,15,16,18}

Ans:

{x:x is a composite no.,1<x<20}

{x:x is a even no.

ii. B={1,2,3,5,6,10,15,30}

Ans:

{x:x is a prime no. less than 30}

{x:x is a factor of 30}

iii. $C=\{-6,-4,-2,0,2,4,6,8,10\}$

Ans:

 $\{x:x = 2n, n \text{ belong to Integers, } -4 < x < 6\}$

{x:x is a multiple of 2}

iv. $D = \{\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \dots, \frac{8}{9}\}$

Ans:

 $\{x:x=n/n+1 \text{ n belong to N }, 1 \le n \le 8\}$

 $\{x:x = n/n \text{ n belong to N }, 1 \le n \le 80\}$

v. $E = \{\frac{1}{3}, \frac{1}{5}, \frac{1}{7}, \frac{1}{11}, \frac{1}{13}, \frac{1}{19}\}$

Ans:

 $\{x:x = 1/n, n \text{ belong to prime }, 2 < n < 20\}$

 ${x:x = 1/n+1, n belong to prime, 2 < n < 20}$

vi. F={May,June,July August, September }

Ans:

{x:x is a month of year having 30 days}

{x:x is a month of year}

CLASS 7 WORKSHEET# 4

CH:SETS

Q1. Identify whether the given pair consist of equal or equivalent but not equal sets or none:

i. A=Set of letters of the word 'FLOWER'.
B= Set of letters of the word 'FOLLOWER'

Equivalent set	Equal set

ii. C={x:x bolongs to N, x+5=6} D={x:x belongs to W, x<1}

Equivalent set	Equal set

iii. E= Set of first five whole numbers.F= Set of first five Natural numbers

Equivalent set	Equal set

iv. $G=\{a,b,c\}$ $H=\{x,y,z\}$

Equivalent set	Equal set

v. J={x:x belong to N,Xis not equal to x} K={x:x belong to N, 6 <x<7}</p>

Equivalent set	Equal set

CLASS 7 WORKSHEET#5

CH:SETS

Q1. For each of the following pairs of sets, identify the disjoint and overlapping sets:

i. A={ x:x is a prime number, x<8} B={x:x is an even natural number, x<8}

DISJOINT SET	OVERLAPPING SET

ii. C={x:x belong to N,x<10} D={x:x belong to N, x is a multiple of 5}

DISJOINT SET	OVERLAPPING SET

 $E=\{x:x=4n, n \text{ belong } N\}$ iii $F=\{x:x=9n, n \text{ belong to } N\}$

DISJOINT SET	OVERLAPPING SET

iv. G={x:x=8n, n belong to N and n<7} $H=\{x:x=9n, n \text{ belong to } N \text{ and } n<7\}$

DISJOINT SET	OVERLAPPING SET