Ex-10-(D)

1-i) {3,5,7,....} Infinite

ii) {1,2,3,4} finite

iii) {..., -3, -2, -1, 0, 1, 2} Infine

iv) {20, 30, 40, 50, ... 200} finite

2-i) Set of counting numbers between 5 and 6 Empty

ii) Set of odd numbers between 7 and 19. not empty

iii) Set of odd numbers between 7 and 9. empty

iv) Set of even numbers that are not divisible by 2. empty

v) {0}. not empty

3-i) {3,5,7} and {5,3,7} Equal

ii) {8,6,10,12} and {3,2,4,6} Equivalent

iii) {7,7,2,1,2} and {1,2,7} Equal

iv) {2,4,6,8,10} and {a,b,d,e,m} Equivalent

4-i) Set of integers Infinite

ii) { Multiples of 5 } Infinite

iii) { Fraction between 1 and 2 } Infinite

iv) { Number of people in India } finite

v) Set of trees in world Infinite

vi) Set of leaves on a tree finite

vii) Set of children in all the schools of Delhi Finite

viii) $\{\ldots, -4, -2, 0, 2, 4, 6, 8\}$ Infinite

ix) $\{-12, -9, -6, -3, 0, 3, 6, \ldots\}$ Infinite

x) { Number of points in a line-segment 4cm long } Infinite

Ex- 10(E)

2) Given:

A = {Natural numbers less than 20}
B = {Letters of the word 'Puppet'}
C = {Squares of first four whole numbers}
D = {Odd numbers divisible by 2}

Find:

i) $n(A) = 9$

ii) $n(B) = 4$

iii) $n(C) = 4$

iv) $n(D) = 0$

3-i) False $n(A) = 1$

ii) False $n(\varnothing) = 0$

iii) True

iv) False $n(B) = 4$