EX:-1o (D)

1. i) $\{3, 5, 7, \ldots\}$ I

ii) $\{1, 2, 3, 4\}$ F

iii) $\{\ldots, -3, -2, -1, 0, 1, 2\}$ I

iv) $\{10, 30, 40, 50, \ldots, 200\}$ I

2. i) Set of counting numbers between 5 and 6. [Empty]

ii) Set of odd numbers between 7 and 11. [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, c, d, e, m}. [Equivalent]

4. i) Set of Integers. [Infinite]

ii) {multiple of 5}. [Infinite]

iii) {Fractions between 1 and 2}. [Infinite]

iv) {Number of People in India}. [Finite]

v) Set of trees in the world. [Infinite]

vi) Set of leaves on a tree. [Finite]

vii) Set of children in all the schools of Delhi. [Finite]

viii) {..... -4, -2, 0, 2, 4, 6, 8} Infinite

ix) {12, -7, -6, -3, 0, 3, 6, ...} Infinite

x) {Number of Points in a line segment 4 cm long}

Infinite

5. i) The number 2 is and also divisible by 2.
Hence, Set {Prime numbers divisible by 2} is
Not empty.

ii) The natural numbers start from 1
Hence, Set {Negative Natural numbers} is empty.

iii) There no Women with height 5 metre
Hence, Set {Women with height 5 metre} is empty

iv) There are integers less than 5
Hence, Set {Integers less than 5} is not empty.

v) There are Prime numbers between 1 and 23
Hence, Set {Prime numbers between 1 and 23}
is not empty.

vi) ~~Set of even~~ The even numbers Not divisible by
2 is empty

vii) The multiples of 3 that are more than
8 and 9 and less than 15} is not empty