WW

DT- 14/7/21

Ex 10(D)

1) State whether the given set is ~~indefinite~~ finite or finite:

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

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

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

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

2) Which of the following sets is empty?

Ans- (iii) and (iv)

3) State which pair of sets given below are equal sets and which are equivalent:

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) State which of following sets are finite or infinite:

i) set of integers - infinite

ii) {multiples of 5} - infinite

iii) {fractions between 1 and 2} - finite

iv) {Number of people in India} - finite

v) set of trees in the world - infinite

vi) set of leaves on a tree - infinite

vii) set of children in all the schools of Delhi - finite

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

ix) {-12, -9, -6, -3, 0, 3, 6...} - infinite

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

5) State whether or not the following sets are empty:

i) {Prime numbers divisible by 2} - Not empty

ii) {Women with height 5 metre} - empty

iii) {Prime numbers between 17 and 23} - Not empty

iv) Set of even numbers not divisible by 2. Empty

v) Set of multiples of 3 that are more than 9 and less 15. Not empty.

vi) {Negative Natural numbers} - ~~Not~~ emty

vii) {Integers less than 5} - Not empty