HW

30/09/2021 Ex- 1o (D)

1) i) $\{3, 5, 7, \ldots\}$ - Infinite

ii) $\{1, 2, 3, 4\}$ - Finite

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

iv) $\{20, 30, 40, 50 \ldots\ldots 200\}$ - Finite

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

Q 2) i) Set of odd number between 7 and 19 :- {9, 11, 13, 15, 17, 19}

ii) Set of odd numbers between 7 and 9 . - Empty

iii) Set of even ~~of divisible by~~ number that are not divisible by 2 - Empty

iv) {0} - Empty

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

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

# Ex-8 (E)

1) i) ~~A = {0, 1, 2, 4}~~

2) i) A = {Natural number less than 10}

= {9}

ii) B = {Letters of the Word 'PUPPET'}

= {P, U, E, T}

iii) C = {Squares of the first four whole numbers}

= $\{1^2, 2^2, 3^2, 4^2\}$ = {1, 4, 9, 16}

iv) D = {Odd numbers divisible by 2}

= {0}

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

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

iii) True

iv) False $n(B) = 4$