

Home Assignment

(B) 01-23

Date _____
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Ex-10(D)

1 i) $\{0, 3, 5, 7, \dots\}$ - Infinite

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

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

iv) $\{20, 30, 40, 50, \dots, 200\}$ - 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) $\{0\}$ - Empty

3 i) $\{0, 3, 5, 7\}$ 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) $\{\text{Multiples of } 5\}$ - Infinite

iii) $\{\text{Fractions between } 1 \text{ and } 2\}$ - Infinite

- iv) {Numbers 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) {Numbers of points in a line segment 4 cm long} - Infinite