

4/1/21

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class - VI sec - B

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Ex-10 D

1. (i) $\{3, 5, 7, \dots\}$ Infinite

(ii) $\{1, 2, 3, 4\}$ finite

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

(iv) $\{20, 30, 40, 50, \dots, 200\}$
Finite

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

(ii) Set of odd numbers between 7 and 19.

(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) $\{3, 5, 7\}$ and $\{5, 3, 7\}$
Equal

(ii) $\{8, 6, 10, 12\}$ and $\{3, 2, 4, 6\}$
equivalent sets.

(iii) $\{7, 7, 2, 1, 2\}$ and $\{1, 2, 7\}$
Equal

(iv) $\{2, 4, 6, 8, 10\}$ and $\{a, b, d, e, m\}$
Equivalent sets.

(b)

4. (i) Set of integers - Infinite

(ii) $\{$ Multiples of 5 $\}$ - Infinite

(iii) $\{$ fractions between 1 and 2 $\}$
Finite

(iv) $\{$ Number of people in India $\}$
Infinite

(v) Set of trees in the world.
Infinite

(vi) Set of leaves on a tree
Infinite

(vii) Set of children in all schools of Delhi. finite

(viii) $\{ \dots, -7, -2, 0, 2, 4, 6, 8 \}$
Infinite

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

(x) $\{$ Number of points in a line segment 4cm. long $\}$ Finite

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(i) $\{ \}$ Prime numbers divisible by 23
 $\{ \}$ empty

(ii) $\{ \}$ Negative natural numbers

(iii) $\{ \}$ Women with height 5 metres
empty

(iv) $\{ \}$ Integers less than 5

(v) $\{ \}$ Prime numbers between
1 and 23

(vi) Set of even numbers divisible
by 2. Empty

(vii) Set of multiples of 3 that is
more than 9 and less than
15.