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Ex - 10 (D)

1) (i) Set $\{3, 5, 7, \dots\}$ is infinite

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

(iii) Set $\{\dots, -3, -2, -1, 0, 1, 2\}$ is infinite

(iv) Set $\{20, 30, 40, 50, \dots, 200\}$ is finite

2) (i) $\{5, 6\}$ Hence, it's not an empty set.

(ii) $\{1, 9, 11, 13, 15, 17, \dots\}$ Hence, it is not empty set.

(iii) $\{0\}$ Hence it's an empty set.

(iv) $\{0\}$ Hence it's an empty set.

(v) $\{0\}$ Hence, it is an empty set.

3. (i) Equal

(ii) equivalent

(iii) ~~Equal~~ Equal

(iv) Equivalent

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4) (i) Infinite

(ii) Infinite

(iii) Infinite

(iv) Finite

(v) Infinite

(vi) Finite

(vii) Finite

(viii) Infinite

(ix) Infinite

(x) Infinite

5) (i) Not empty

(ii) Empty

(iii) Empty

(iv) Not empty

(v) Not empty

(vi) Empty

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(i) Not empty

(ii) Equivalent

(iii) Equal

(iv) Equal

(v) Equal

(vi) Equal

(vii) Equivalent

8) (i) Finite

(ii) Infinite

(iii) Finite

(iv) Finite

(v) Infinite

(vi) Finite

9) (i) False

(ii) False

(iii) True



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(iv) True

(v) True

(vi) False

(vii) True

(viii) False

2/ (i) Disjoint sets

(ii) Overlapping sets

(iii) Overlapping sets

(iv) Overlapping sets

(v) Overlapping sets

(vi) Disjoint sets.