

How

## Exercise 10 (D)

①

i) Infinite set

ii) Finite set

iii) Infinite set

iv) Finite set

②

i) Empty

ii) Not empty

iii) Empty

iv) Empty

v) Not empty

③

i) Equal sets

ii) Equivalent sets

iii) Equal sets

iv) Equivalent sets

4

- (i) Infinite sets
- (ii) Infinite sets
- (iii) Infinite sets
- (iv) Finite sets
- (v) Infinite sets
- (vi) Finite sets
- (vii) Finite sets
- (viii) Infinite sets
- (ix) Infinite sets
- (x) Infinite sets

5

- (i) Not empty
- (ii) Empty
- (iii) Empty
- (iv) Not empty
- (v) Not empty
- (vi) Empty
- (vii) Not empty

~~HW  
11/10/22~~

6

- Equivalent sets
- (i) Equal sets
- (ii) Equal sets
- (iii) Equal sets
- (iv) Equal sets
- (v) Equal sets
- (vi) Equivalent sets

7

- (i) Finite
- (ii) Infinite

(iii) Finite

(iv) Finite

(v) Infinite

(vi) Finite

(8) ~~False~~

(i) False

(ii) False

(iii) True

(iv) True (each set is the empty set)

(v) True

(vi) False (6 is an even natural number which is divisible by 3)

(vii) True (no positive number will be less than the number 0)

(viii) False

(9)

(i) Disjoint sets.

no girls can be of age above 15 years and below 15 years.

(ii) Overlapping sets.

boys above 27 years are also above 20 years.

(iii) Overlapping sets

natural numbers from 50 to 59 are common to both the sets.

(iv) Overlapping sets

students of class IX studying in I.C.S.E. board are common.

(v) Overlapping sets

natural number 24 is common to both the sets.

(vi) Disjoint sets

no letter is common to both sets.