



EXERCISE 10 (D) :

- 1. (i) Infinite
- (ii) Finite
- (iii) Infinite
- (iv) Finite

- 2. (i) empty
- (ii) not empty
- (iii) empty
- (iv) empty
- (v) not empty

- 3. (i) Equal Sets and Equivalent Sets.
- (ii) Equivalent Sets.
- (iii) Equal sets.
- (iv) Equivalent

- 4. (i) Infinite
- (ii) Infinite
- (iii) Finite
- (iv) Finite
- (v) Finite
- (vi) Finite
- (vii) Finite
- (viii) Infinite

- (ix) Infinite
- (x) Finite

5) (i) not empty

(ii) not empty

(iii) " empty

(iv) not empty

(v) " empty.

(vi) empty

(vii) not empty.

6) (i) Equivalent sets

(ii) Equal sets

(iii) ~~are~~ equal sets ^{and} ~~not~~ equivalent sets.

(iv) Equal sets.

(v) ~~not not possible~~ Equal sets.

(vi) Equivalent sets.

EXERCISE - 10 (D)

7. (i) Finite
 (ii) Infinite
 (iii) Finite
 (iv) ~~True~~ Finite
 (v) Infinite
 (vi) Finite

8. (i) False
 (ii) False
 (iii) True
 (iv) True
 (v) True
 (vi) True
 (vii) False
 (viii) False

9. (i) Since, the girls below with ages below 15 years and the girls ~~at~~ with ages above 15 years can't be same. aren't same. So, this is a disjoint set.

- (ii) Since, above 27 years is same as above 20 years so it is a overlapping set
- (iii) Since, between 35 and 60 and between 50 and 80, between 50 and 60 there are many ^{common} elements so it is a overlapping set.
- (iv) Since, the board is I.C.S.E or any other type of education, but ~~the~~ class is XI. So it is a overlapping set.
- (v) Since, between 20 and 30 there are common elements, so, it is a overlapping set.