Hw
07-2021

Exercise 10(D)

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

2. (i) Not empty
(ii) Not empty
(iii) empty
(iv) empty
(v) Not empty

3. (i) Equal
(ii) equivalent
(iii) equal
(iv) equivalent

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) Not empty
(iii) empty
(iv) Not empty
(v) Not empty
(vi) empty
(vii) Not empty

6. (i) Equivalent
(ii) equal
(iii) equal
(iv) equal
(v) equal
(vi) equivalent

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

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

9. (i) No disjoint because no one can be given below 15 and above 15.

(ii) overlapping sets, as boys above 27 years are also above 20 years.

(iii) overlapping sets because in both of them so to so have com

(iv) overlapping as the students in IX, I C are common.

(5) (i) Overlapping circles
representing 2 sets having
no common elements.

(ii) Disjoint no letter
is common.

Ex - 10 (E)

1. (i) $n(A) = 4$
(ii) 6
(iii) 0
(iv) 3
(v) 4
(vi) 7

2. (i) 9
(ii) 4
(iii) 4
(iv) 0

3. (i) False; $n(A) = 1$
(ii) False; $n(\phi) = 0$
(iii) True
(iv) False; $n(B) = 4$