

1. (i) Infinite

(ii) Finite

(iii) Infinite Infinite

(iv) Finite

(v) Finite

2. (i) Empty

(ii) Not empty

(iii) ~~Empty~~ Empty

(iv) Empty

(v) Not empty

3. (i) Equal

(ii) Equivalent

(iii) Equal

(iv) Equivalent

(v) Equal

q. (i) Infinite

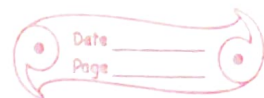
(ii) Infinite

(iii) Infinite

(iv) Finite

(v) Infinite

Exc 10 E



1. (i) The cardinal number $n(A) = 4$

(ii) The cardinal number $n(B) = 6$

(iii) The cardinal number $n(C) = 0$

(iv) The cardinal number $n(D) = 3$

(v) The cardinal number $n(E) = 4$

2. (i) $N(A) = 9$

(ii) $N(B) = 4$

(iii) $N(C) = 4$

(iv) $N(D) = 0$

(v) $A \cap B = \{1, 2, 3, 4, 5, 6, 7, 8, 9, P, U, E, T\}$
 $N(A \cup B) = \{13\}$

3. (i) $A = \{0\}$, then $n(A) = 1$
 False

(ii) $n(\emptyset) = 0$ False

(iii) True

(iv) False

$B = \{1, 5, 5, 15, 5, 1\}$