CW
14/7/21

Ex-10(E)

1) i) $A = \{0, 1, 2, 4\}$
ans) No. of elements of this set = 4
∴ 4 is the cardinal number of this set.

ii) $B = \{-3, -1, 1, 3, 5, 7\}$
ans) No. of elements of this set = 6
∴ 6 is the cardinal number of this set.

iii) $C = \{\}$
ans) No. of elements of this set = 0.
∴ 0 is the cardinal number of this set.

iv) $D = \{3, 2, 2, 1, 3, 1, 2\}$
ans) No. of elements of this set = 3.
∴ 3 is the cardinal number of this set.

v) $E = \{$Natural numbers between 15 and 20$\}$
ans) No. of elements of this set = 4
∴ 4 is the cardinal number of this set.

vi) $F = \{$Whole numbers from 8 to 14$\}$.
ans) No. of elements of this set = 7
∴ 7 is the cardinal number of this set.

2) i) $n(A)$
ans) Set $A = \{$Natural numbers less than 10$\}$
$= \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$
Cardinal no. = 9
∴ $n(A) = 9$

ii) n(B)

ans) Set B = {Letters of the word 'PUPPET'}
= {p, u, e, t}
Cardinal no. = 4
∴ n(B) = 4

iii) n(C)

ans) Set C = {Squares of first four whole numbers}
= {0, 1, 4, 9}
Cardinal no. = 4
∴ n(C) = 4

iv) n(D)

ans) Set D = {Odd numbers divisible by 2}.
= { }
Cardinal no. = 0
∴ n(D) = 0

3) i) If A = {0}, then n(A) = 0.

ans) False
n(A) = 1

ii) n(∅) = 1

ans) False
n(∅) = 0

iii) If T = {a, b, h, b, d, h}; then n(T) = 5

ans) True
Because an element cannot be repeated.

iv) If B = {1, 5, 51, 15, 5, 1}, then n(B) = 6.

ans) False
Because an element cannot be repeated.