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Exercise - 10(E)

1) i) $A = \{0, 1, 2, 4\}$

$\therefore$ Cardinal number of Set A = 4, i.e. $n(A) = 4$

ii) $B = \{-3, -1, 1, 3, 5, 7\}$

$\therefore$ Cardinal number of Set B = 6, i.e. $n(B) = 6$

iii) $C = \{\}$

$\therefore$ Cardinal number of set C = 0, i.e. $n(C) = 0$

(iv) cardinal number of Set D = 3, i.e. $n(D) = 3$

v) E = {Natural numbers between 15 and 20}

vi) F = {whole numbers from 8 to 14}

$\therefore$ Cardinal number of set F = 7, i.e. $n(F) = 7$

2) i) Given A = {Natural numbers less than 10}

$= \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$

$\therefore n(A) = 9$

ii) Given B = {Letters of the word 'PUPPET'}

$= \{P, U, E, T\}$

$\therefore n(B) = 4$

iii) Given C = {Squares of the first four whole numbers}

$= \{0, 1, 4, 9\}$

$\therefore n(C) = 4$

iv) Given $D = \{$ Odd numbers divisible by 2 $\}$

$= \{\}$

$\therefore n(D) = 0$

3) i) If $A = \{0\}$, then $n(A) = 0$ (false)

ii) $n(\phi) = 1$ (False)

iii) If $T = \{a, l, g, a, h, i, b, r, d, h\}$ then $n(T) = 5$ (True)

iv) If $B = \{1, 5, 51, 15, 5, 1\}$ then $n(B)$

$= 6$. (False).