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Date
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EXERCISE - 10(E)

1) (i) $A = \{0, 1, 2, 4\}$
∴ Cardinal number of set $A = 4$, i.e. $n(A) = 4$
(ii) $B = \{-3, -1, 1, 3, 5, 7\}$
∴ Cardinal number of set $B = 6$, i.e. $n(B) = 6$
(iii) $C = \{\}$
∴ 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 number from 8 to 14$\}$
∴ Cardinal number of set $F = 7$ i.e. $n(F) = 7$

2) (i) Given $A = \{$Natural numbers less than $10\} = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$
∴ $n(A) = 9$
(ii) Given $B = \{$Letters of the word 'PUPPET'$\} = \{P, U, E, T\}$
∴ $n(B) = 4$
(iii) Given $C = \{$Squares of the first four whole numbers$\} = \{0, 1, 4, 9\}$
∴ $n(C) = 4$

(iv) Given $D = \{$Odd numbers divisible by $2\} = \{\}$
∴ $n(D) = 0$

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

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

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

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