

19/11/2021

CH-10



EX-10(E)

1. write the cardinal number of each of the following sets:

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

Ans $\rightarrow 4$

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

Ans $\rightarrow 6$

(iii) $C = \{ \}$

Ans $\rightarrow 0$

(iv) $D = \{3, 27, 13, 12\}$

Ans $\rightarrow 3$

(v) $E = \{ \text{Natural numbers between } 15 \text{ and } 20 \}$

Ans $\rightarrow 4$

(vi) $F = \{ \text{whole numbers from } 0 \text{ to } 14 \}$

Ans $\rightarrow 15$

2. Give

$A = \{ \text{Natural numbers less than } 10 \}$

Ans 9

$B = \{ \text{Letters of the word 'PUPPET'} \}$

Ans 4

$C = \{ \text{Squares of the ^{first four} ~~first four~~ whole numbers} \}$

Ans 34

$D = \{ \text{odd number divisible by } 2 \}$

Ans ~~0~~ $\rightarrow 0$

3. State true or false for each of the following

Correct the wrong statement

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

(ii) $n(\mathbb{Q}) = 1$ Ans (False)

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

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