

6(c)-

i) $A = \{5, 7\}$

$\rightarrow \emptyset, \{5\}, \{7\}$

ii) $B = \{A, B, C\}$

$\rightarrow \emptyset = \{A\}, \{B\}, \{C\}, \{A, B\}, \{B, C\}$

iii) $C = \{x: x \in \mathbb{N}, x \leq 2\}$

$\rightarrow \emptyset, \{0\}, \{1\}, \{2\}$

ii) $\{P : P \text{ is a letter in word 'POOR'}\}$.

$\Rightarrow \emptyset, \{P\}, \{O\}, \{R\}$.

2 i) Set C

$\Rightarrow C = \{C, o, l, e, r\}$

ii) $n(C)$

$\Rightarrow 5$

iii) No. of Subsets-

$\Rightarrow 32$

iv) No. of Proper Subset-

$\Rightarrow 32 - 1 = 31$

3 \Rightarrow Subset of $\{ 'TEETH' \}$

$\Rightarrow \emptyset = \{T\}, \{E\}, \{H\}$