Ex- 6(C)

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

ii) $B = \{a, b, c\}$
$= \phi, \{a\}, \{b\}, \{c\}, \{a, b\}, \{a, c\}, \{b, c\}, \{a, b, c\}$

iii) $C = \{x : x \in W \text{ and } x < 2\}$
$= \{0, 1, 2\}$
$\phi, \{0\}, \{1\}, \{2\}, \{0, 1\}, \{1, 2\}, \{0, 2\}, \{0, 1, 2\}$

iv)
$= \{p, o, r\}$
$= \phi, \{p\}, \{o\}, \{r\}, \{p, o\}, \{o, r\}, \{p, r\}, \{p, o, r\}$

~~2) i) Set~~

2) If C is the set of letters in word 'colour' find:
i) Set $C = \{c, o, l, e, r\}$
ii) $n(C) = 5$
iii) no. of its subsets $= 2^n = 2^5 = 32$
iv) no. of its proper subsets $= 2^n - 1 = 5^2 - 1 = 25 - 1 = 24$
$2^n - 1 = 2^5 - 1 = 32 - 1 = 31$

3) i) {TEETH}
$= \phi, \{t\}, \{e\}, \{h\}, \{t, e\}, \{e, h\}, \{t, e, h\}, \{t, h\}$

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