$$(1) \quad \alpha) \quad \text{if } y = \emptyset$$

- b) if x | x is a letter of the English alphabet y, in other words the whole English alphabet.
 - c) & a, e, i, 0, uy = A

- (2) a) & 0, 44
 - b) &1,2,3,63
 - c) {0,1,2,3,4,5,69
 - a) $\forall (1,0), (1,4), (1,5),$
 - (2, 0), (2, 4), (2, 5),
 - (3, 0), (3,4), (3,5),
 - (5,0), (5,4), (5,5),
 - (6,0), (6,4), (6,5) }
 - e) f(0,1),(0,2),(0,3),(0,5),(0,6), (4,1),(4,2),(4,3),(4,5),(4,6),(5,1),(5,2),(5,3),(5,5),(5,6)
 - f) f (5,5) }

- (3) of a, c, dy
 - b) fe,g,hy
 - c) [ø, ٤ey, ٤gy, ٤ny, ٤e, gy, ٤e, ny, ٤g, ny, ٤e, g, ny,
 - d) tø, lag, tcg, ldg, la, cg, la, dg, lc, dg, la, c, dg,

Call A OB = D

Then
$$D = 40,2,4,69$$

NOW Dnc = 2 4,69

: ANBNC = & 4,69

b) Call AUB = D

Then $D = \{0, 1, 2, 3, 4, 5, 6, 8, 10\}$ $DUC = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

: AUBUC = £0,1,2,3,4,5,6,7,8,9,109

c) Call AOB = D

D= & 0,2,4,69

DUC = £0,2,4,5,6,7,8,9,109

: (ANB)UC = £0,2,4,5,6,7,8,9,10 3

6 a) Call (A 1 B) = D

Call (Bnc) = E

$$D = \{a, b, c, d, e, f, g, h\}$$

$$D - E = \{c, d, e, f, g\}$$

$$\therefore (AUB) - (ACC) = \{c, d, e, f, g\}$$