Solutions (Set Operations)

(1) a) & y, because there is no common alphabet

b) if x | x is an alphabet, the English alphabets y, in other words set of all English alphabets.

c) é a, e, i, 0, u3

- (2) a) & 0, 43
  - b) f1,2,3,63
  - c) {0,1,2,3,4,5,69
  - d)  $\forall (1,0), (1,4), (1,5),$ (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), (0,6), (0,6), (0,6), (0,6), (4,1), (4,2), (4,3), (4,5), (4,6), (5,1), (5,2), (5,3), (5,5), (5,6) <math>f(0,1)
  - f) of (5,5) g

(3) e(a,c,d) b) fe,g,hy c) peg, egg, eng, ee, gg, ee, ng, eg, ng, ee, ng, ee, ng, ee, g, ng, d) fø, fag, fcg, fdg, fa, cg, fa, dg, fc, dg, ¿a,c,dy y

 $D = \{0, 2, 4, 6\}$   $D = \{0, 2, 4, 6\}$   $D \cap C = \{4, 6\}$ 

1 AMB = D (Assume)

: ANBOC = & 4,69

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

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

$$\therefore AUBUC = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$(B)$$
  $(A)$   $(A)$   $(A)$   $(A)$