(6)

(4)

- 1. Simplify the following boolean expressions to a minimum number of literals. (4)
  - 1. xyz' + x'yz + xyz + x'yz'
  - 2. ABC + A'B + ABC'
- 2. Draw the logic diagrams for the following.
  - 1. (x+y)'. (x'+y')
  - 2. (x+y'+z'). (x'+z')

(4)

3. Simplify the following boolean function

Х	у	Z	F
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

4. Express the complement of following functions in sum-of-minterms form.

$$F(w, x, y, z) = \sum (0, 1, 2, 4)$$

$$F(x, y, z) = \prod (0, 2, 4)$$