

3.11

a)

A	B	C	Z
0	0	0	1
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

$\bar{A} \cdot \bar{B} \cdot \bar{C}$
 $\bar{A} \cdot B \cdot C$
 $A \cdot B \cdot C$

$$\underline{\underline{Z = (\bar{A} \cdot \bar{B} \cdot \bar{C}) + (\bar{A} \cdot B \cdot C) + (A \cdot B \cdot C)}}$$

b)

A	B	C	Z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	1

$\bar{A} \cdot B \cdot C$
 $A \cdot B \cdot \bar{C}$
 $A \cdot B \cdot C$

$$\underline{\underline{Z = (\bar{A} \cdot B \cdot C) + (A \cdot B \cdot \bar{C}) + (A \cdot B \cdot C)}}$$

c)

A	B	C	Z
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

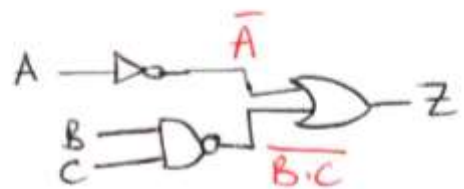
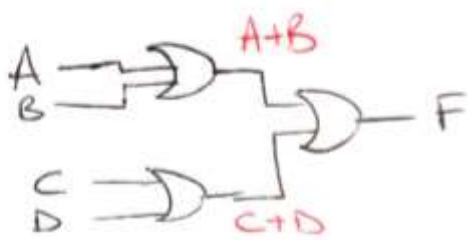
$\bar{A} \cdot \bar{B} \cdot C$
 $A \cdot \bar{B} \cdot C$

$$\underline{\underline{Z = (\bar{A} \cdot \bar{B} \cdot C) + (A \cdot \bar{B} \cdot C)}}$$

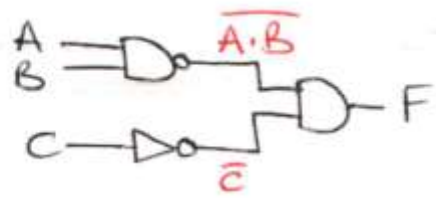
3.12

a) $F = A + B + C + D$

b) $Z = \bar{A} + (\overline{B \cdot C})$



$$c) F = \overline{(A \cdot B)} \cdot \bar{C}$$



$$d) Z = A + B + (C \cdot D)$$

