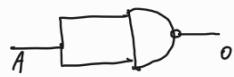
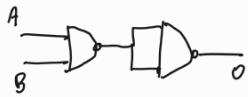


① (a)



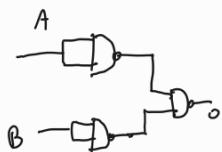
A	O
0	1
1	0
1	0

(b)



A	B	O
0	0	0
0	1	0
1	0	0
1	1	0

(c)



A	B	O
0	0	0
0	1	1
1	0	1
0	1	1
1	1	1

② (a)

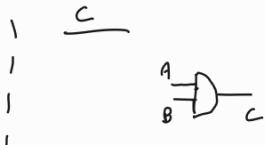
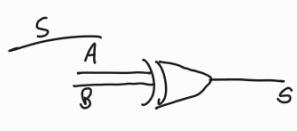
A	B	S	C
0	0	0	0
0	1	1	0
1	0	1	0
1	1	0	1

(b)

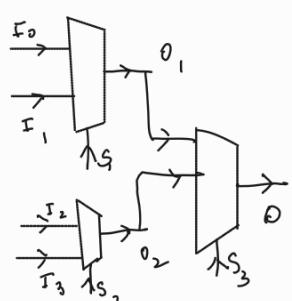
$$S = A \oplus B$$

$$C = A \cdot B$$

(c)



③



S ₁	I
0	I ₀
1	I ₁

S ₂	I
0	I ₂
1	I ₃

$$O_1 = \bar{S}_1 \cdot I_0 + S_1 \cdot I_1$$

$$O_2 = \bar{S}_2 \cdot I_2 + S_2 \cdot I_3$$

S ₃	I
0	O ₁
1	O ₂

$$O = \bar{S}_3 \cdot O_1 + S_3 \cdot O_2$$

$$= \bar{S}_3 \cdot \bar{S}_1 \cdot I_0 + \bar{S}_3 \cdot S_1 \cdot I_1 + S_3 \cdot \bar{S}_2 \cdot I_2 + S_3 \cdot S_2 \cdot I_3$$