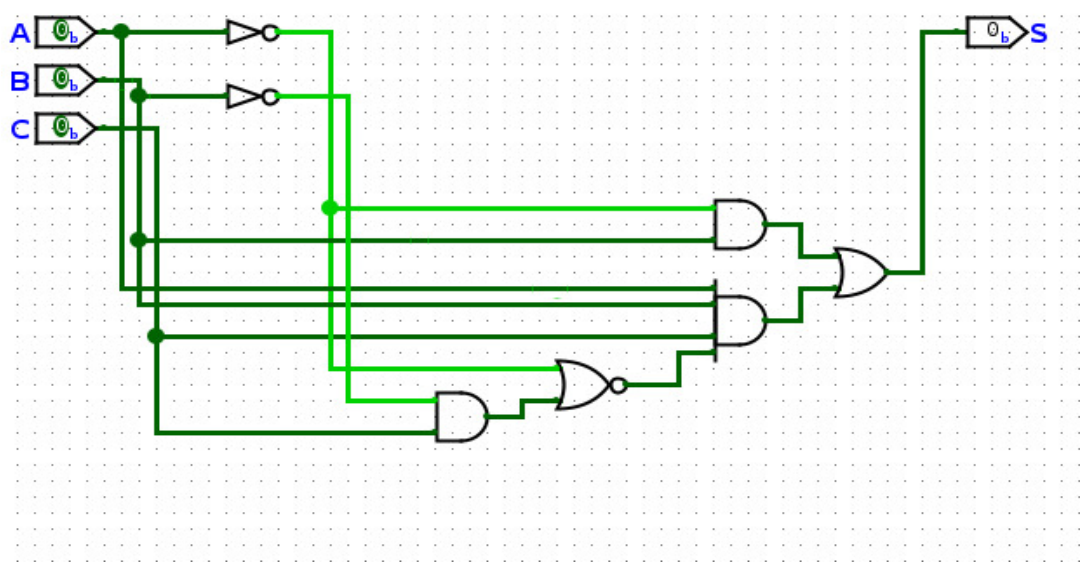


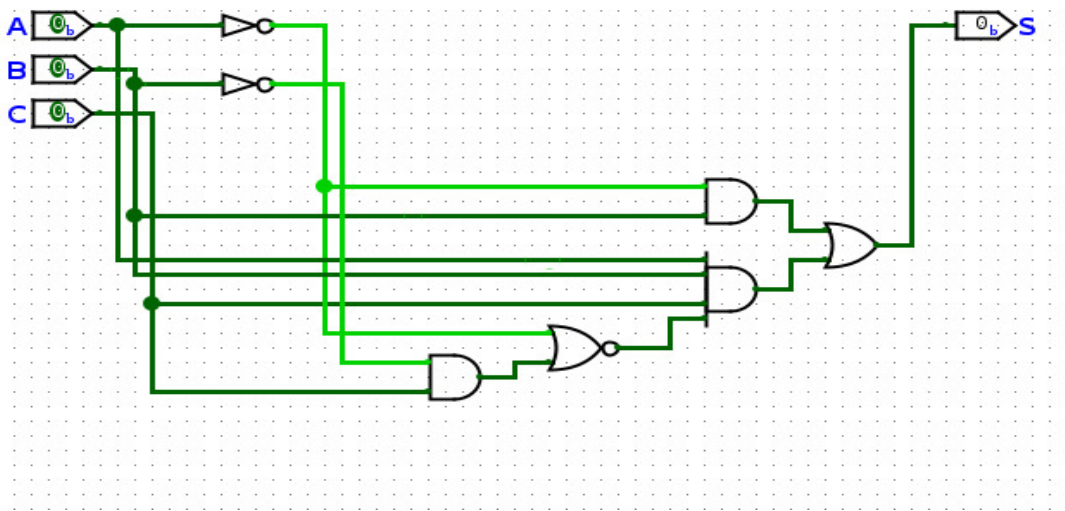
1-A



2.A-

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

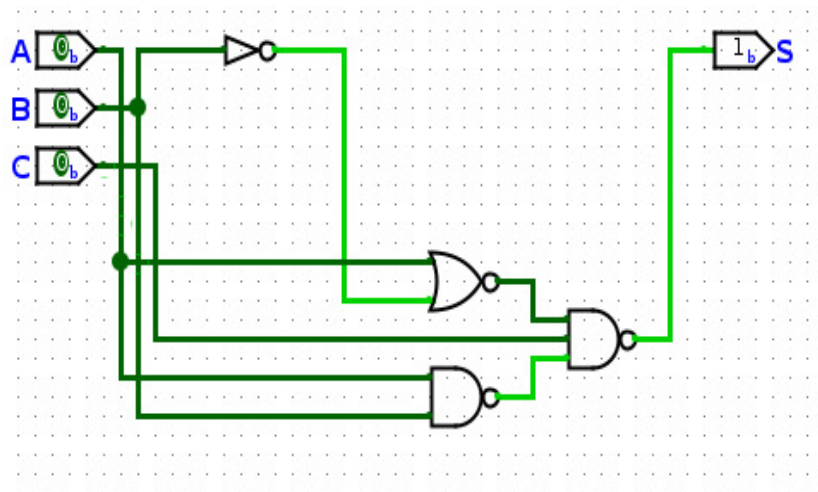
B-



2.B-

A	B	C	S
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

C-



3.C

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

3-

A

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

B

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

C

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

4-

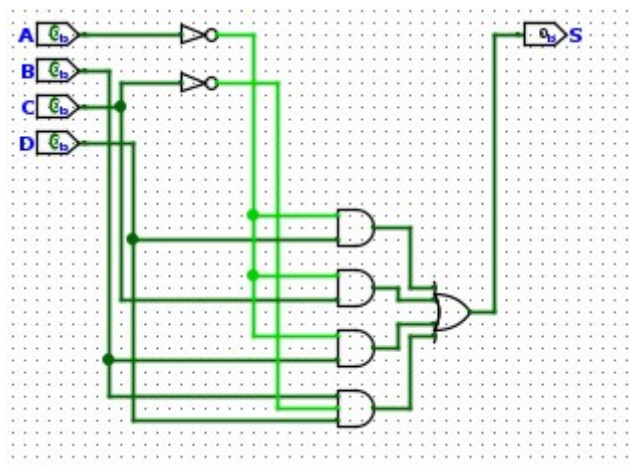
A) $S = (\bar{A} * \bar{B} * C * D) + (\bar{A} * \bar{B} * C * \bar{D}) + (\bar{A} * B * C * D) + (\bar{A} * B * C * \bar{D}) + (A * B * \bar{C} * \bar{D}) + (A * B * C * \bar{D}) + (A * B * C * D) + (A * \bar{B} * \bar{C} * \bar{D}) + (A * \bar{B} * C * \bar{D}) + (A * \bar{B} * C * D)$

B) $S = (\bar{A} * B * C) + (\bar{A} * B * \bar{C}) + (A * \bar{B} * C) + (A * \bar{B} * \bar{C}) + (A * B * \bar{C})$

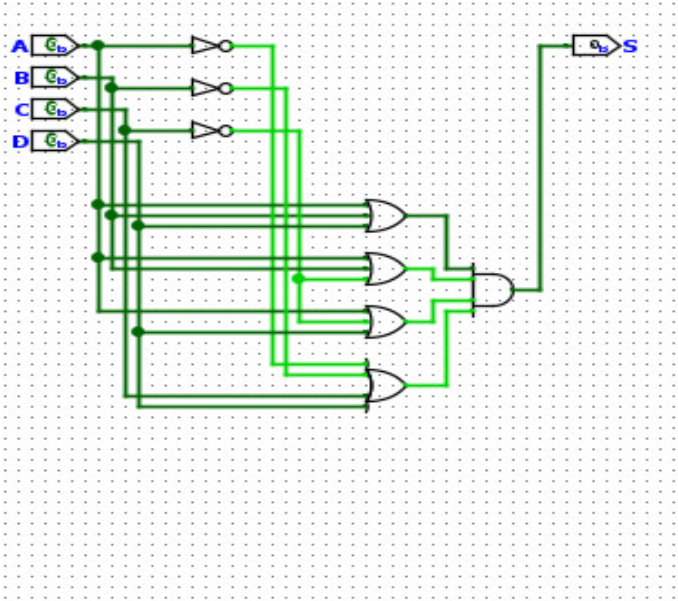
C) $S = (\bar{A} * \bar{B} * C * D) + (\bar{A} * B * C * D) + (A * B * C * D) + (A * \bar{B} * C * D)$

5-

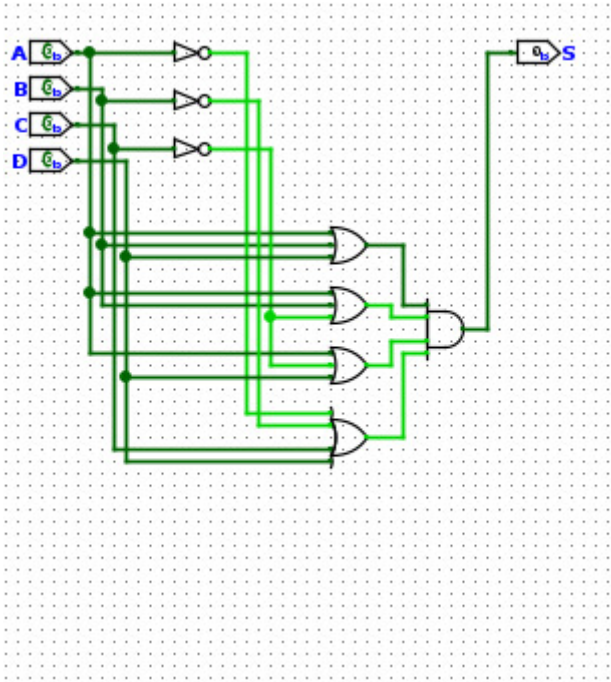
A)



B)



C)



6-
A.1)

$$f = \overline{A \cdot A \cdot B \cdot A \cdot B \cdot B}$$

$$g = \overline{A \cdot A \cdot B \cdot A \cdot B \cdot B}$$

A.2)

A	B	f	g
0	0	0	0
0	1	1	1
1	0	1	1
1	1	0	0

B.1)

$$F = \overline{A+B+C} + \overline{A \oplus C} \cdot \overline{A} + (A \cdot \overline{B} + B) \cdot C$$

B.2)

A	B	C	F
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

