

Homework #3 CSC 137

1) a.

A	B	Ci	Sum	Count
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

b.

	$\bar{B}\bar{C}$	$\bar{B}C$	BC	$B\bar{C}$	
\bar{A}	0	1	0	1	Sum
A	1	0	1	0	

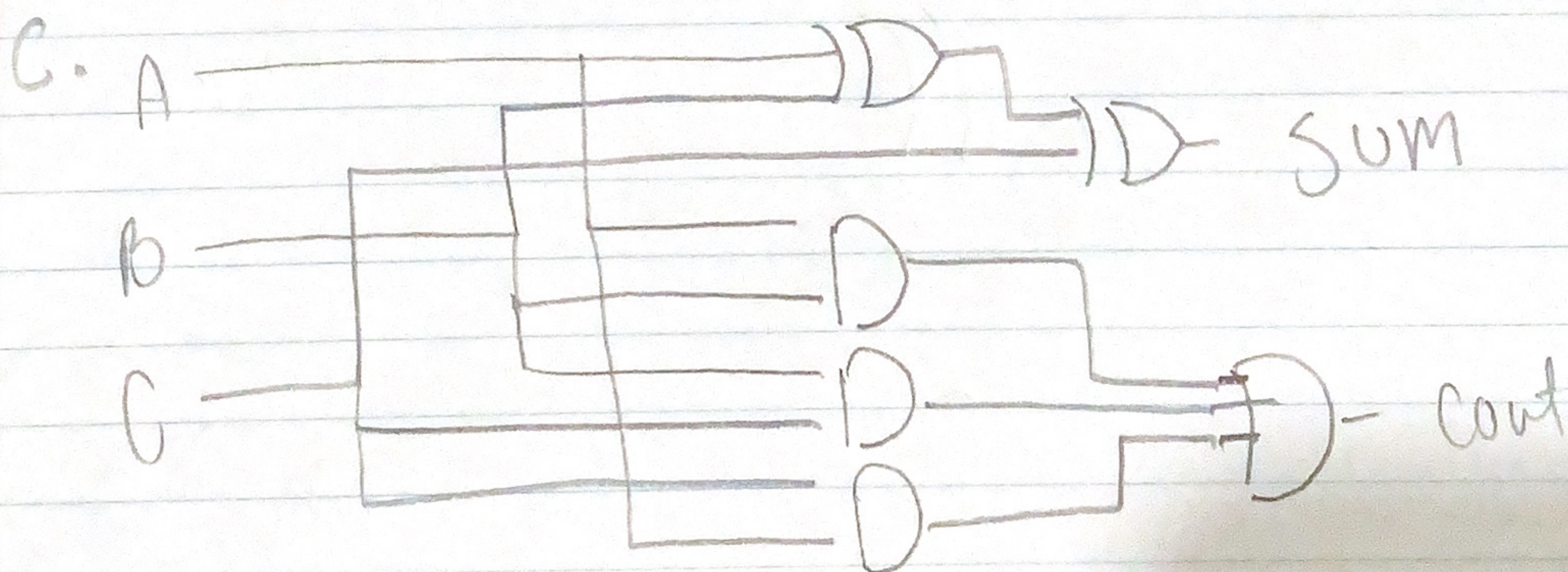
	$\bar{B}\bar{C}$	$\bar{B}C$	BC	$B\bar{C}$
\bar{A}	0	0	1	0
A	0	1	1	1

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

$$A(\bar{B}\bar{C}) + A(\bar{B}C) + A(B\bar{C}) + A(BC)$$

$$Count = \bar{B}\bar{C} + \bar{B}C + A\bar{B} + AC$$

$$Sum = A + B + C$$



2) a)

S	1	1	1
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
1	0	0	0
1	0	0	0

b)

S	1	1	0	1	1	0	1	1	0	1	1	0	0
S	0	1	0	1	0	1	0	1	0	1	0	1	0
S	0	0	0	0	0	0	0	0	0	0	0	0	0

