

22K-4187

SYED SAMROZE ALI

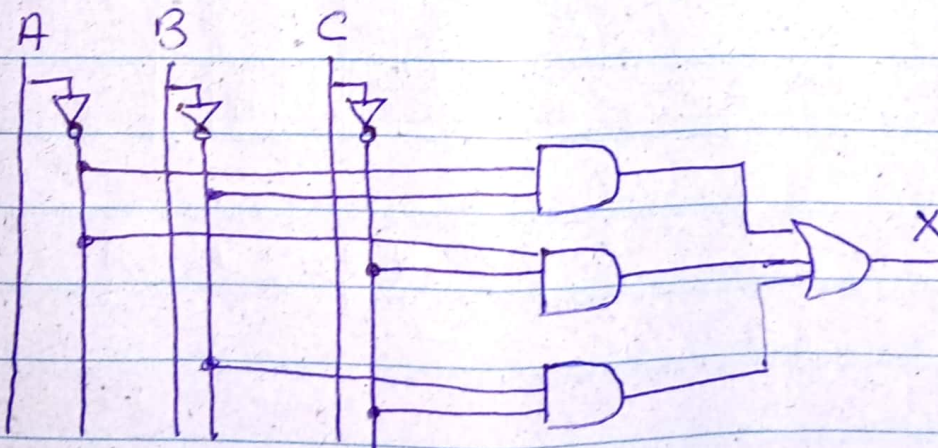
Assignment #02

(QUESTION #01)

A	B	C	X
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0

AB \ C	0	1
00	1	1
01	1	
11		
10	1	

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



QUESTION #02

A_3	A_2	A_1	A_0	X
0	0	0	0	0
0	0	0	1	0
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	0
1	0	0	1	0
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	0

$A_3 A_2$

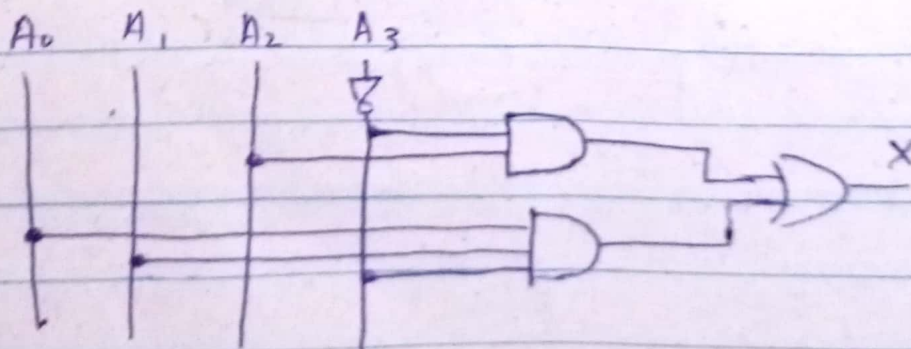
$A_1 A_0$	00	01	11	10
00			1	
01	1	1	1	1
11				
10				

$$K = \bar{A}_0 A_2 A_3 + \bar{A}_0 A_1$$

$A_3 A_2$

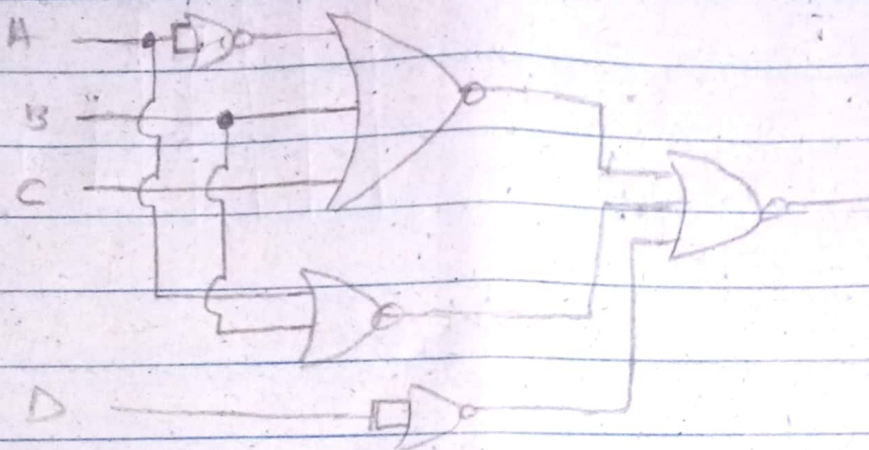
$A_1 A_0$	00	01	11	10
00			1	
01				
11				
10	1	1	1	1

$$X = A_2 A_3 + A_0 A_1 \bar{A}_3$$

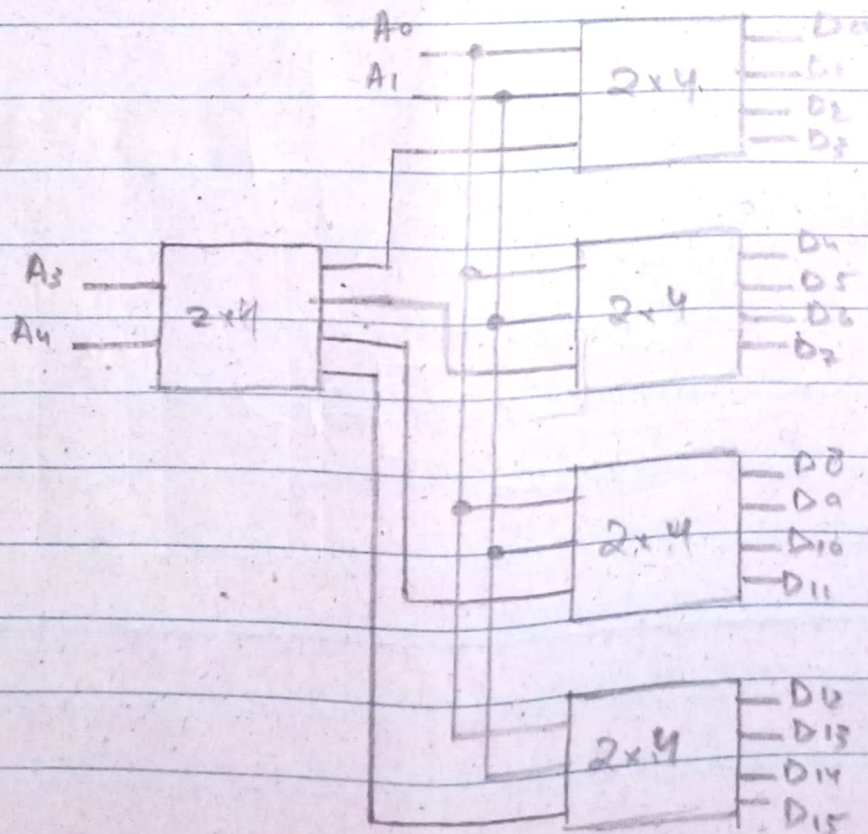


QUESTION #03

$$F = (A' + B + C)(A + B)D$$



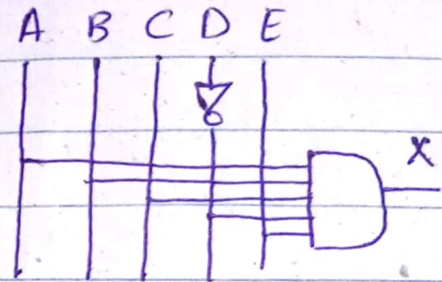
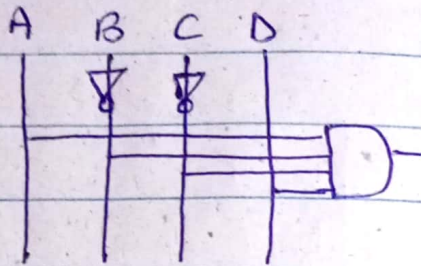
QUESTION #04



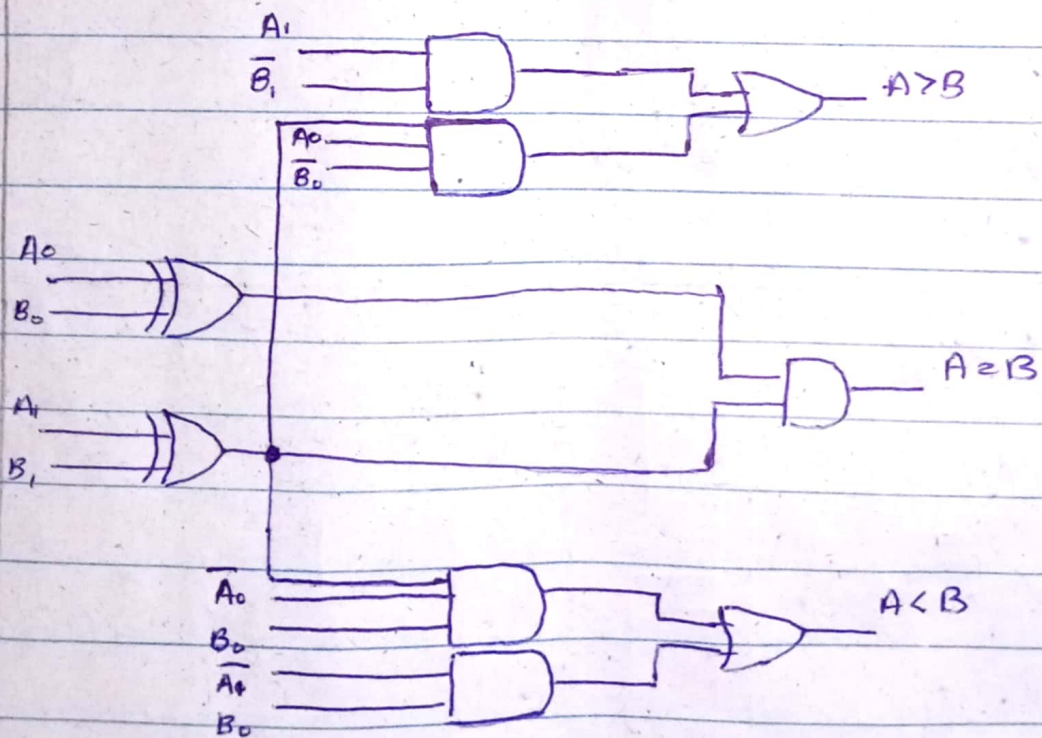
QUESTION #05

(a) 1001

(b) 11101



QUESTION #06



QUESTION #07

	A_1	A_0	B_1	B_0	$A=B$	$A>$	$A<B$
0	0	0	0	0	1	0	0
1	0	0	0	1	0	0	1
2	0	0	1	0	0	0	1
3	0	0	1	1	0	0	0
4	0	1	0	0	0	1	0
5	0	1	0	1	1	0	0
6	0	1	1	0	0	0	1
7	0	1	1	1	0	0	1
8	1	0	0	0	0	1	0
9	1	0	0	1	0	1	0
10	1	0	1	0	1	0	0
11	1	0	1	1	0	0	1
12	1	1	0	0	0	1	0
13	1	1	0	1	0	1	0
14	1	1	1	0	0	1	0
15	1	1	1	1	1	0	0

