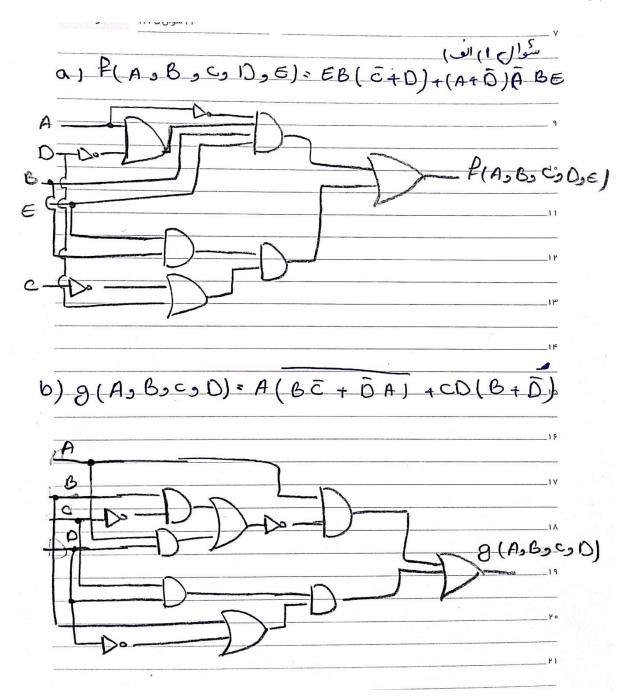
بسمه تعالى

سؤال ١) الف)



ب)

a)

#	A	В	С	D	Е	EB	C'+D	EB(C'+D)	A+D'	A'BE	(A+D')A'BE	f
0	0	0	0	0	0	0	1	0	1	0	0	0
1	0	0	0	0	1	0	1	0	1	0	0	0
2	0	0	0	1	0	0	1	0	0	0	0	0
3	0	0	0	1	1	0	1	0	0	0	0	0
4	0	0	1	0	0	0	0	0	1	0	0	0
5	0	0	1	0	1	0	0	0	1	0	0	0
6	0	0	1	1	0	0	1	0	0	0	0	0
7	0	0	1	1	1	0	1	0	0	0	0	0
8	0	1	0	0	0	0	1	0	1	0	0	0
9	0	1	0	0	1	1	1	1	1	1	1	1
10	0	1	0	1	0	0	1	0	0	0	0	0
11	0	1	0	1	1	1	1	1	0	1	0	1
12	0	1	1	0	0	0	0	0	1	0	0	0
13	0	1	1	0	1	1	0	0	1	1	1	1
14	0	1	1	1	0	0	1	0	0	0	0	0
15	0	1	1	1	1	1	1	1	0	1	0	1
16	1	0	0	0	0	0	1	0	1	0	0	0
17	1	0	0	0	1	0	1	0	1	0	0	0
18	1	0	0	1	0	0	1	0	1	0	0	0
19	1	0	0	1	1	0	1	0	1	0	0	0
20	1	0	1	0	0	0	0	0	1	0	0	0
21	1	0	1	0	1	0	0	0	1	0	0	0
22	1	0	1	1	0	0	1	0	1	0	0	0
23	1	0	1	1	1	0	1	0	1	0	0	0
24	1	1	0	0	0	0	1	0	1	0	0	0
25	1	1	0	0	1	1	1	1	1	0	0	1
26	1	1	0	1	0	0	1	0	1	0	0	0
27	1	1	0	1	1	1	1	1	1	0	0	1
28	1	1	1	0	0	0	0	0	1	0	0	0
29	1	1	1	0	1	1	0	0	1	0	0	0
30	1	1	1	1	0	0	1	0	1	0	0	0
31	1	1	1	1	1	1	1	1	1	0	0	1

b)

#	A	В	С	D	BC'	AD'	BC'+AD'	(BC'+AD')'	A(BC'+AD')'	CD	B+D'	CD(B+D')	g
0	0	0	0	0	0	0	0	1	0	0	1	0	0
1	0	0	0	1	0	0	0	1	0	0	0	0	0
2	0	0	1	0	0	0	0	1	0	0	1	0	0
3	0	0	1	1	0	0	0	1	0	1	0	0	0
4	0	1	0	0	1	0	1	0	0	0	1	0	0
5	0	1	0	1	1	0	1	0	0	0	1	0	0
6	0	1	1	0	0	0	0	1	0	0	1	0	0
7	0	1	1	1	0	0	0	1	0	1	1	1	1
8	1	0	0	0	0	1	1	0	0	0	1	0	0
9	1	0	0	1	0	0	0	1	1	0	0	0	1
10	1	0	1	0	0	1	1	0	0	0	1	0	0
11	1	0	1	1	0	0	0	1	1	1	0	0	1
12	1	1	0	0	1	1	1	0	0	0	1	0	0
13	1	1	0	1	1	0	1	0	0	0	1	0	0
14	1	1	1	0	0	1	1	0	0	0	1	0	0
15	1	1	1	1	0	0	0	1	1	1	1	1	1

سؤال ۲)

a) left side = right side

RightSide	AC'	BC	A'B'	LeftSide	B'C'	AB	A'C	D	С	В	A	#
1	0	0	1	1	1	0	0	0	0	0	0	0
1	0	0	1	1	1	0	0	1	0	0	0	1
1	0	0	1	1	0	0	1	0	1	0	0	2
1	0	0	1	1	0	0	1	1	1	0	0	3
0	0	0	0	0	0	0	0	0	0	1	0	4
0	0	0	0	0	0	0	0	1	0	1	0	5
1	0	1	0	1	0	0	1	0	1	1	0	6
1	0	1	0	1	0	0	1	1	1	1	0	7
1	1	0	0	1	1	0	0	0	0	0	1	8
1	1	0	0	1	1	0	0	1	0	0	1	9
0	0	0	0	0	0	0	0	0	1	0	1	10
0	0	0	0	0	0	0	0	1	1	0	1	11
1	1	0	0	1	0	1	0	0	0	1	1	12
1	1	0	0	1	0	1	0	1	0	1	1	13
1	0	1	0	1	0	1	0	0	1	1	1	14
1	0	1	0	1	0	1	0	1	1	1	1	15

پاسخ تمرین سری سوم درس طراحی مدارهای منطقی- پاییز ۱۳۹۵

b) left side \neq right side

RightSide	AC	A'B	B'C'	LeftSide	AB'	BC	AC'	D	C	В	A	#
1	0	0	1	0	0	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0	1	0	0	0	1
0	0	0	0	0	0	0	0	0	1	0	0	2
0	0	0	0	0	0	0	0	1	1	0	0	3
1	0	1	0	0	0	0	0	0	0	1	0	4
1	0	1	0	0	0	0	0	1	0	1	0	5
1	0	1	0	1	0	1	0	0	1	1	0	6
1	0	1	0	1	0	1	0	1	1	1	0	7
1	0	0	1	1	1	0	1	0	0	0	1	8
1	0	0	1	1	1	0	1	1	0	0	1	9
1	1	0	0	1	1	0	0	0	1	0	1	10
1	1	0	0	1	1	0	0	1	1	0	1	11
0	0	0	0	1	0	0	1	0	0	1	1	12
0	0	0	0	1	0	0	1	1	0	1	1	13
1	1	0	0	1	0	1	0	0	1	1	1	14
1	1	0	0	1	0	1	0	1	1	1	1	15

