

۹۵۳۱۰۳۱

بیا

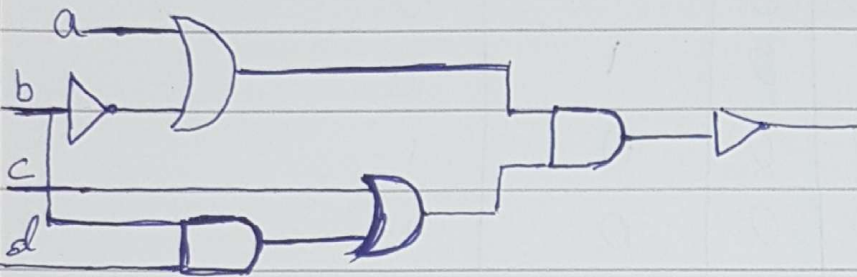
① الف) ورودی X و Y را با استفاده از دروازه های And و Not و Or به نحوی که $Z = (X.Y)'$ (ح)

$$Z = (X.Y)' = X' + Y' \quad (ب)$$

$$[(0+1)+1] \cdot [(1.0) + (1+1)]' \cdot [(1+1+1) \cdot (0+0+1)] \quad (۲)$$

$$[1+1] \cdot [0+1]' \cdot [1.1] = 1.0.1 = 0$$

③ الف)



(ب)

$$[(0+0') \cdot (0+0.1)]' = [1 \cdot (0+0)]' = [1 \cdot 0]' = 1$$

④ الف) بیت

A	B	C	A'	B'	C'	(A'+B'+C')	(A'+B'+C')'	ABC
0	0	0	1	1	1	1	0	0
0	0	1	1	1	0	1	0	0
0	1	0	1	0	1	1	0	0
0	1	1	1	0	0	1	0	0
1	0	0	0	1	1	1	0	0
1	0	1	0	1	0	1	0	0
1	1	0	0	0	1	1	0	0
1	1	1	0	0	0	0	1	1

TAT

A	B	C	D	A'	C'	BC'	A'D	BC'	$A' + BC' + A'D$	$A + BC'$
0	0	0	0	1	1	0	0	0	1	0
0	0	0	1	1	1	0	1	0	1	0
0	0	1	0	1	0	0	0	0	1	0
0	0	1	1	1	0	0	1	0	1	0
0	1	0	0	1	1	1	0	1	1	1
0	1	0	1	1	1	1	1	1	1	1
0	1	1	0	1	0	0	0	0	1	0
0	1	1	1	1	0	0	1	0	1	0
1	0	0	0	0	1	0	0	0	0	1
1	0	0	1	0	1	0	0	0	0	1
1	0	1	0	0	0	0	0	0	0	1
1	0	1	1	0	0	0	0	0	0	1
1	1	0	0	0	1	1	0	1	1	1
1	1	0	1	0	1	1	0	1	1	1
1	1	1	0	0	0	0	0	0	0	1
1	1	1	1	0	0	0	0	0	0	1

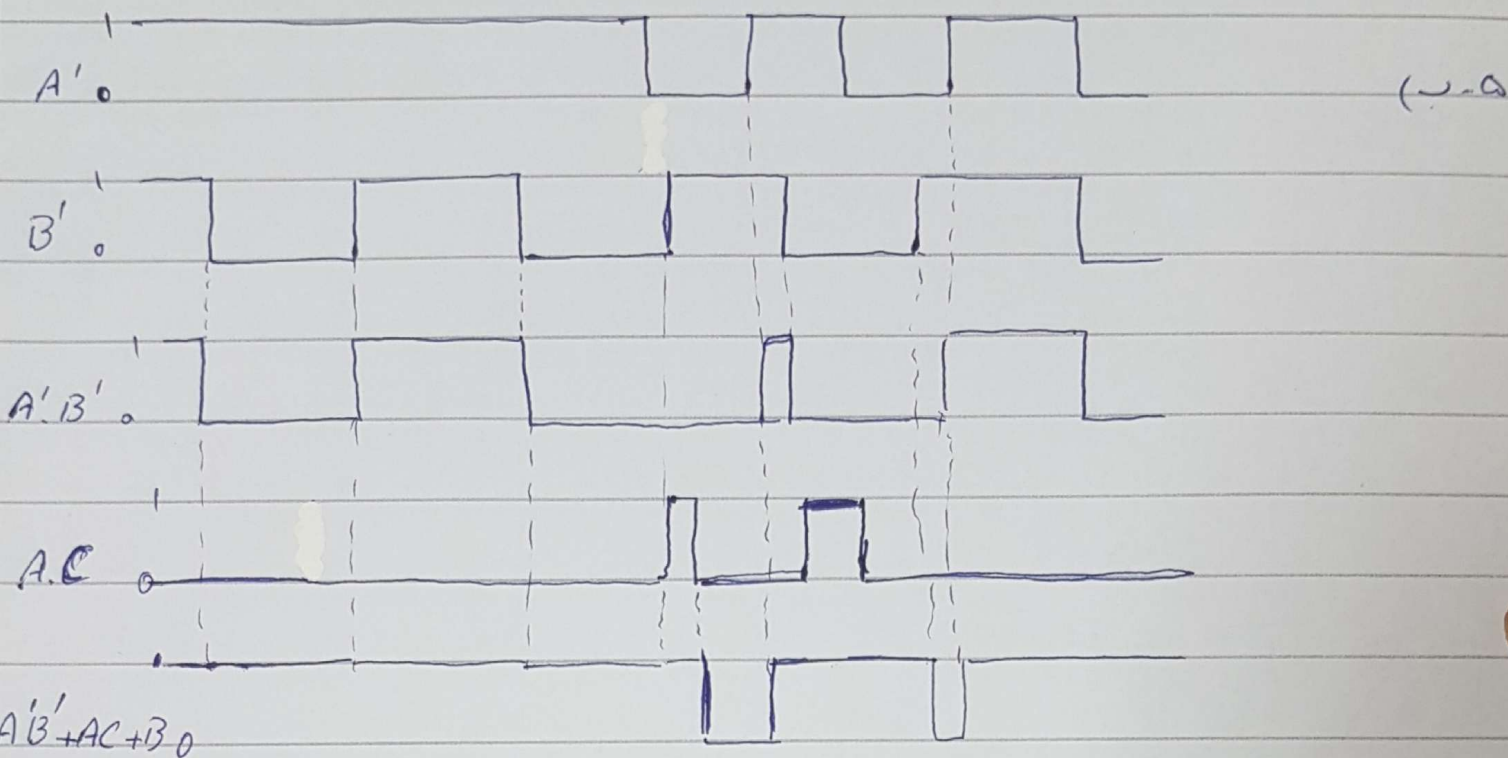
(ب) نالیت

BC

(5) الف

$A + B.C$

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