Organização e Arquitetura de Computadores Prof.^a Joseana Macêdo Fechine

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Exercício Prático 1

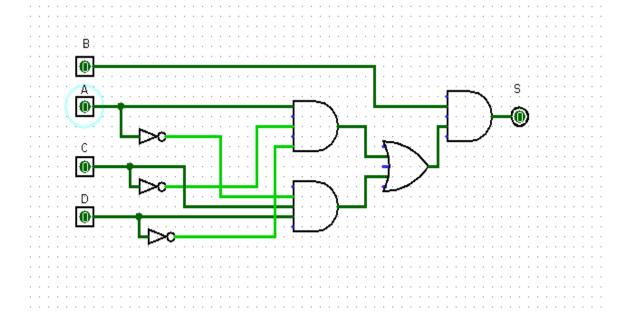
QUESTÃO 1:

TABELA VERDADE								
A	В	C	D	S				
0	0	0	0	0				
0	0	0	1	0				
0	0	1	0	0				
0	0	1	1	0				
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	0				
1	1	0	0	1				
1	1	0	1	0				
1	1	1	0	0				
1	1	1	1	0				

Expressão:

$$S = B(AC'D' + A'CD)$$

Circuito:

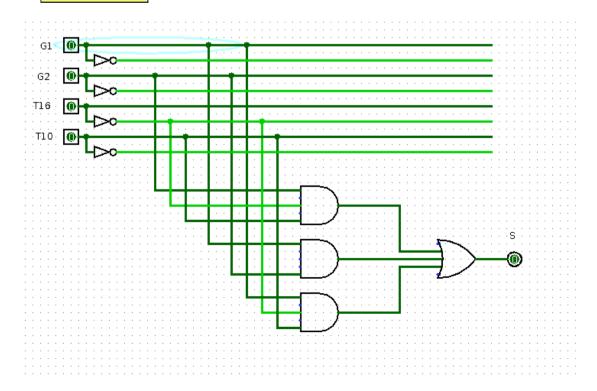


QUESTÃO 2:

TABELA VERDADE								
G1	G2	T16	T10	S(Cofre abre)				
0	0	0	0	0				
0	0	0	1	0				
0	0	1	0	X				
0	0	1	1	0				
0	1	0	0	0				
0	1	0	1	1				
0	1	1	0	X				
0	1	1	1	0				
1	0	0	0	0				
1	0	0	1	1				
1	0	1	0	X				
1	0	1	1	0				
1	1	0	0	1				
1	1	0	1	1				
1	1	1	0	X				
1	1	1	1	1				

Expressão: S = (G2.T16'.T10 + G1.G2 + G1.T16'.T10)

CIRCUITO:



QUESTÃO 3:

TABELA VERDADE												
А	В	С	D	S	a	b	c	d	е	f	g	DISPLAY
0	0	0	0	0	1	1	1	1	1	1	0	0
0	0	0	1	0	0	1	1	0	0	0	0	1
0	0	1	0	0	1	1	0	1	1	0	1	2
0	0	1	1	0	1	1	1	1	0	0	1	3
0	1	0	0	0	0	1	1	0	0	1	1	4
0	1	0	1	0	1	0	1	1	0	1	1	5
0	1	1	0	1	1	0	1	1	1	1	1	6
0	1	1	1	1	1	1	1	0	0	0	0	7
1	0	0	0	1	1	1	1	1	1	1	1	8
1	0	0	1	1	1	1	1	0	0	1	1	9
1	0	1	0	х	х	х	х	х	х	х	х	х
1	0	1	1	x	х	х	х	х	х	х	х	х
1	1	0	0	x	х	х	х	х	х	х	х	х
1	1	0	1	x	х	х	х	х	х	х	х	х
1	1	1	0	х	х	х	х	х	х	х	х	х
1	1	1	1	x	х	х	х	х	х	х	х	х

Expressão: S = A + BC

CIRCUITO:

