

Ashkan GETİNER
B171210014

Soru 1:

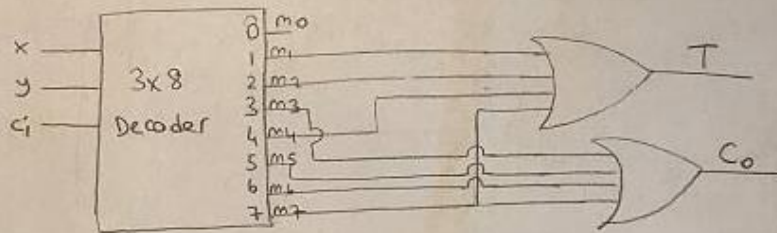
x	y	c _i	T	C _o
0	0	0	0	0 m ₀
0	0	1	1	0 m ₁
0	1	0	1	0 m ₂
0	1	1	0	1 m ₃
1	0	0	1	0 m ₄
1	0	1	0	1 m ₅
1	1	0	0	1 m ₆
1	1	1	1	1 m ₇

$$T_{(toplam)} = \Sigma(m_1, m_2, m_4, m_7)$$

$$= x'y'c_i + x'y'c_i' + x'y'c_i' + xyc_i$$

$$C_{o(elde)} = \Sigma(m_3, m_5, m_6, m_7)$$

$$= x'y'c_i + xy'c_i + xyc_i' + xyc_i$$



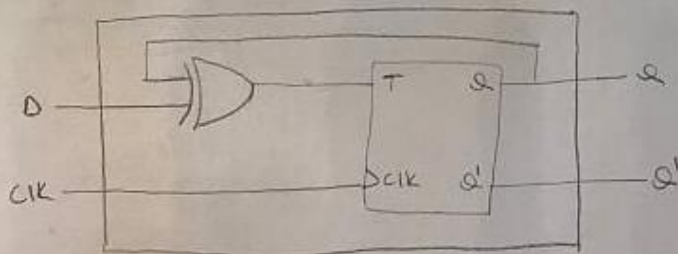
Soru 2:

D	q	Q	T
0	0	0	0
0	1	0	1
1	0	1	1
1	1	1	0

D \ q	0	1
0		1
1	1	

$$T = Dq' + D'q$$

$$T = D \oplus q$$



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Soru 3:

$$J_1 = x' + q_2'$$

$$K_1 = x' + q_2'$$

$$\begin{aligned} D_1 = Q_1 &= J_1 q_1' + K_1' q_1 \\ &= (x' + q_2') q_1' + (x q_2) q_1 \\ &= x' q_1' + q_1' q_2' + x q_1 q_2 \end{aligned}$$

$$D_2 = Q_2 = x + q_1'$$

Şimdiki Durum $q_1 q_2$	Sonraki Durum $Q_1 Q_2$		Uyarma işlevleri $J_1 K_1$		D_2	
	$x=0$	$x=1$	$x=0$	$x=1$	$x=0$	$x=1$
00	11	11	11	11	1	1
01	11	01	11	00	1	1
10	00	01	11	11	0	1
11	00	11	11	00	0	1

