CC3301 - Arquitectura de Computadores Pauta Auxiliar 2

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1. P1.a Examen 2006

Codificación de Estados

	(X)	(Y)
Estado	Q_0	Q_1
A	0	1
В	1	0
\mathbf{C}	1	1
D	0	1

Diagrama de Estados

X Y/Adel Atras

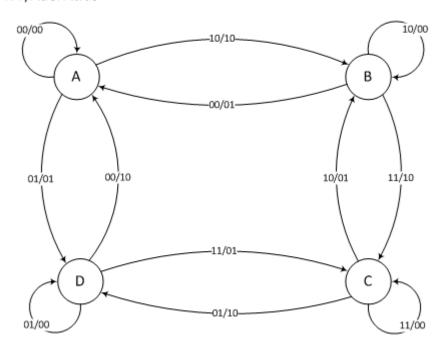


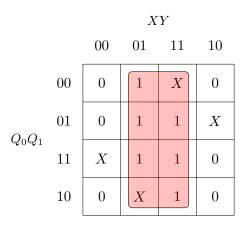
Tabla de Verdad

	Q_0	Q_1	X	Y	D_0	D_1	ADEL	ATRAS
	0	0	0	0	0	0	0	0
	0	0	0	1	0	1	0	1
A	0	0	1	0	1	0	1	0
	0	0	1	1	X	X	X	X
	0	$\bar{1}$	0	0	0	0	1	
	0	1	0	1	0	1	0	0
D	0	1	1	0	X	X	X	\mathbf{X}
	0	1	1	1	1	1	0	1
	1	$-\bar{0}$	0	0	0	0	0	1
	1	0	0	1	X	X	X	X
В	1	0	1	0	1	0	0	0
	1	0	1	1	1	1	1	0
	1	$\bar{1}$	0	0	\bar{X}	X		X
	1	1	0	1	0	1	1	0
\mathbf{C}	1	1	1	0	1	0	0	1
	1	1	1	1	1	1	0	0

Mapas de Karnaugh: D_0

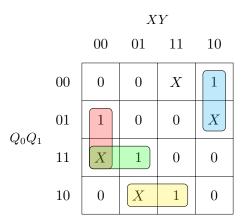
$$D_0 = \underline{X}$$

Mapas de Karnaugh: D_1



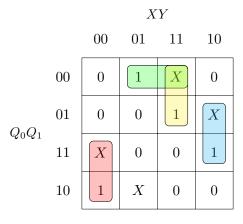
$$D_1 = \underline{Y}$$

Mapas de Karnaugh: ADEL



$$ADEL = \underline{Q_1 \neg X \neg Y} \vee \underline{Q_0 Q_1 \neg X} \vee \underline{\neg Q_0 X \neg Y} \vee \underline{Q_0 \neg Q_1 Y}$$

Mapas de Karnaugh: ATRAS



$$ADEL = \underline{Q_0 \neg X \neg Y} \vee \underline{\neg Q_0 \neg Q_1 Y} \vee \underline{Q_1 X \neg Y} \vee \underline{\neg Q_0 X Y}$$