



The Hashemite University

.Pre Lap

Faculty of Engineering

Mechatronics Department

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Lab . Session 7 : State Diagram
(JK-Flip-flop).

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B)

0 - 1 - 3 - 5 - 7 - 0

000 001 011 101 111 000

Present state			Next state			Q2		Q1		Q0	
Q2	Q1	Q0	Q2	Q1	Q0	J	K	J	K	J	K
0	0	0	0	0	1	0	X	0	X	1	X
0	0	1	0	1	1	0	X	1	X	X	0
0	1	1	1	0	1	1	X	X	1	X	0
1	0	1	1	1	1	X	0	1	X	X	0
1	1	1	0	0	0	X	1	X	1	X	1

J Q2 =

0	0	1	X
X	X	X	X

K Q2 =

X	X	X	X
X	0	1	X

J Q1 =

0	1	X	X
X	1	X	X

K Q1 =

X	X	1	X
X	X	1	X

J Q0 =

1	X	X	X
X	X	X	X

K Q0 =

X	0	0	X
X	0	1	X

C)

[illegible]