55 - 111 56 - 101

57 - 100

State Diagram

at clock edge. Dutputs are marked over the arrows is All transitions happen 91.

(c) State Table

P. 5.	N.S, output
000	(001,0)
001	(011,0)
011	(010,0)
010	(110,0)
10	(111,0)
11.1	(101,0)
101	(100,0)
100	(000,1)

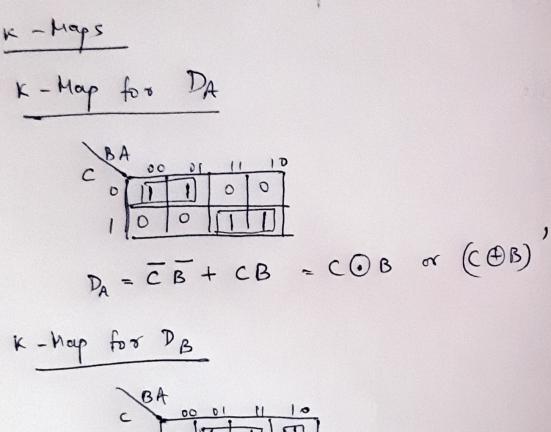
(d) gransition	and	Dutput	Table
(a) —			
7. S.	N	. 2.	

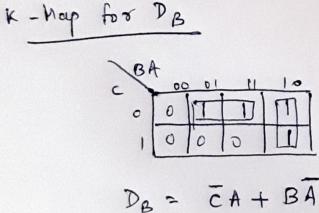
P-S-	· 2·4	Output
000	001	0
001	011	O
011	010	0
010	110	0
110	111	D
1)1	101	0
101	(00)	Ø
100	000	1

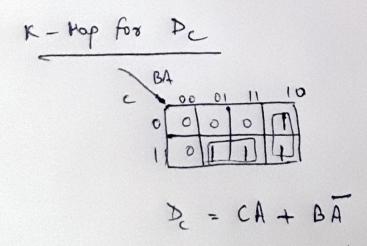
1. 1

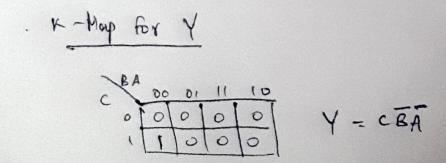
Excitation Table

Present state			Next state		Flip-flop Inputs			Output	
C(t)	B(t)	A(t)	C(t+1)	B(t+1)	A(t+1)	D_C	D_B	D_A	Υ
0	0	0	0	0	1	0	0	1	0
0	0	1	0	1	1	0	1	1	0
0	1	1	0	1	0	0	1	0	0
0	1	0	1	1	0	1	1	0	0
1	1	0	1	1	1	1	1	1	0
1	1	1	1	0	1	1	0	1	0
1	0	1	1	0	0	1	0	0	0
1	0	0	0	0	0	0	0	0	1









went digroun DCLK CLK PA BA GA AND CLK

Note; Bc = ((t+1), BB = B(t+1), BA = A(t+1)