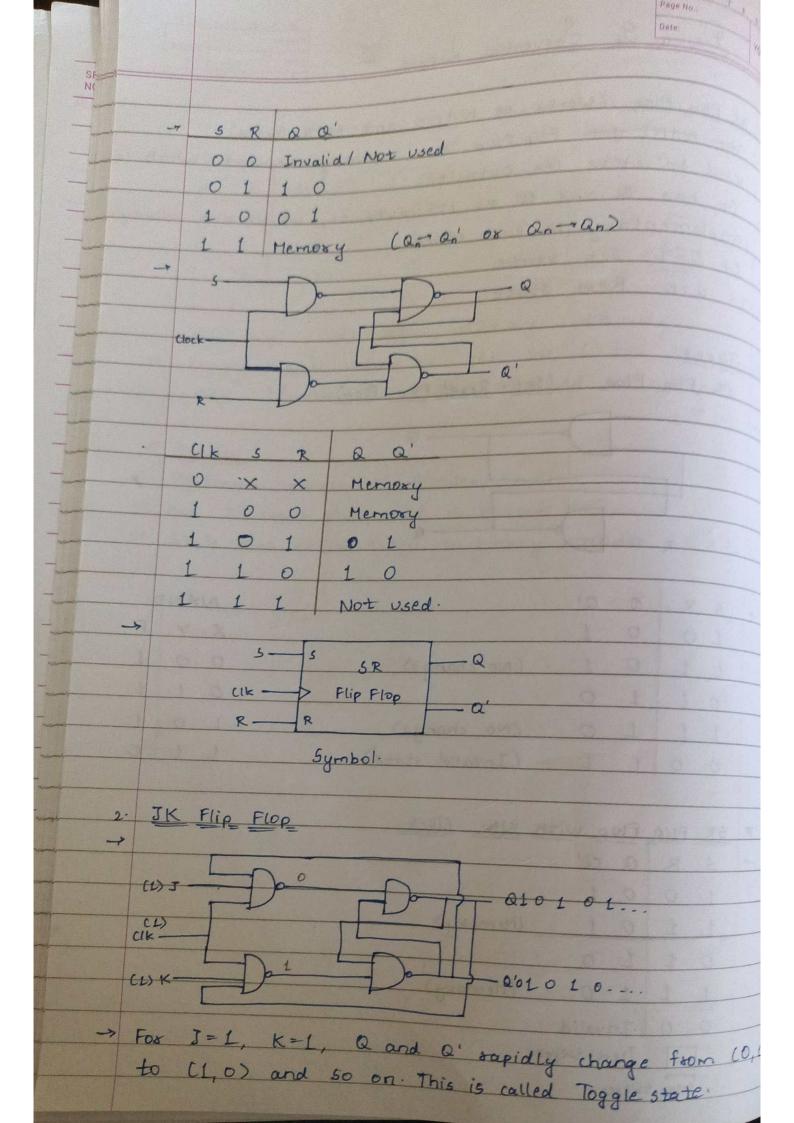
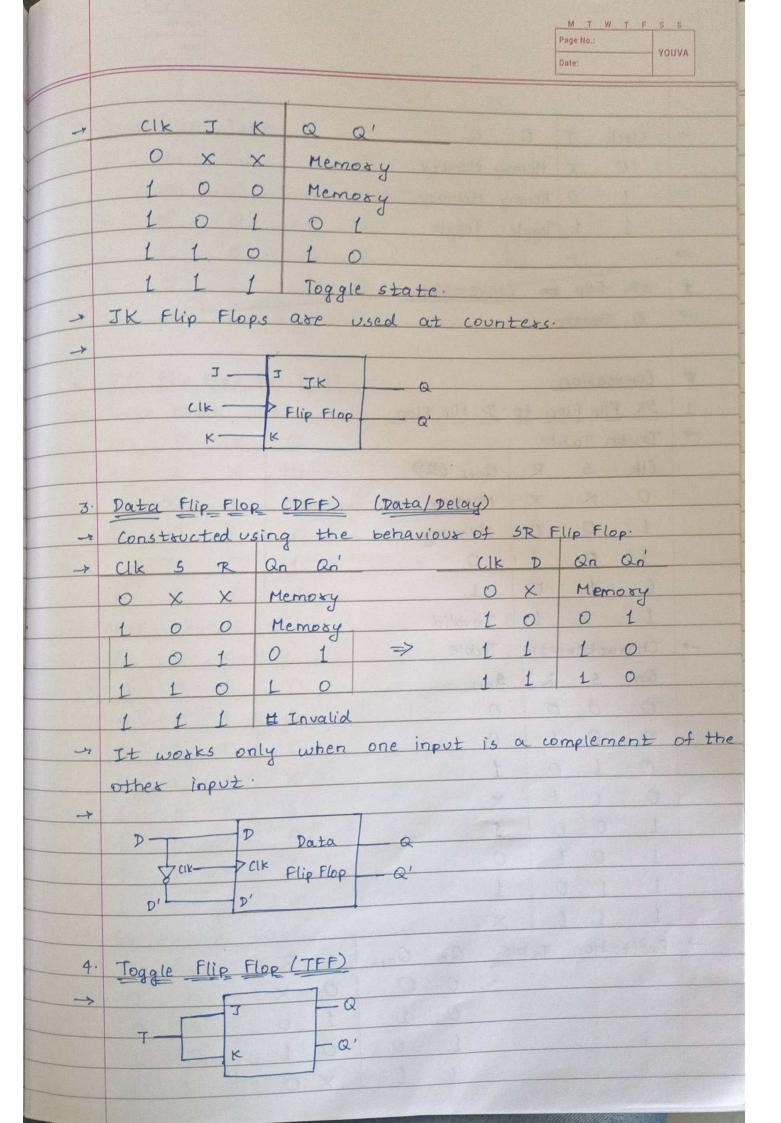
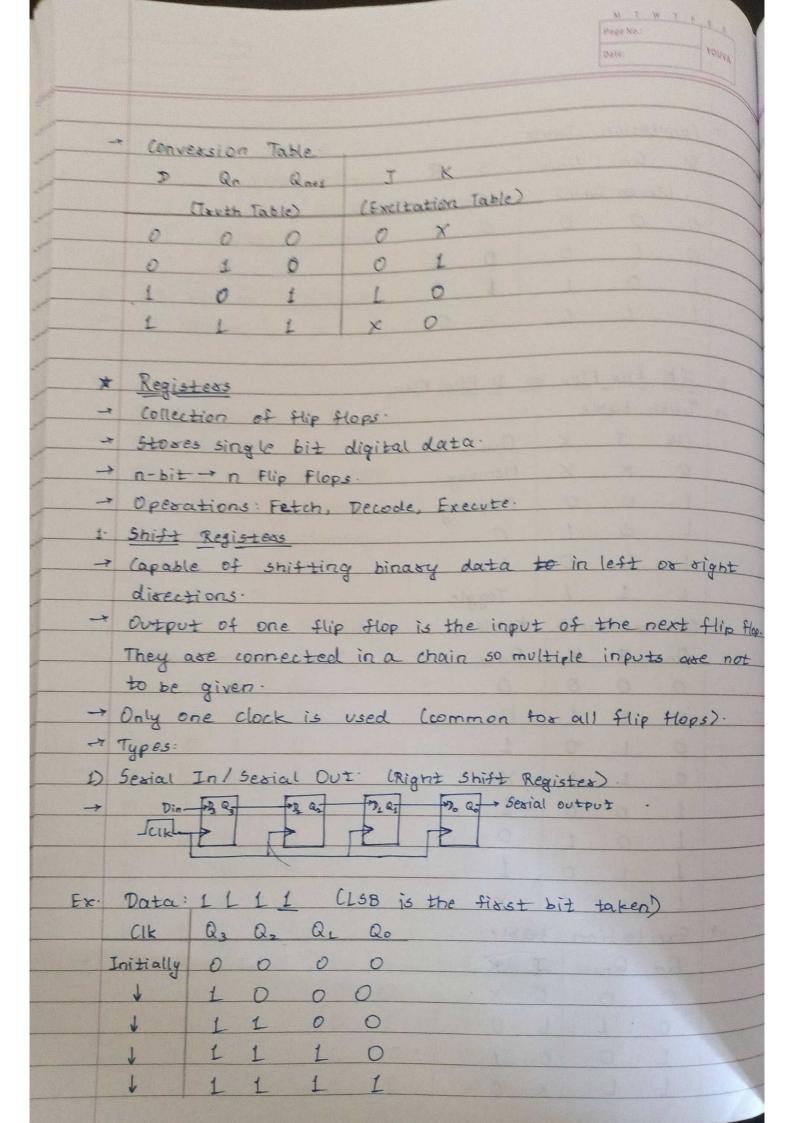
	(A) (A) (B)			UVA ,				
41/2022	Design Of Seque	ntial Logic	Date:					
29/1								
*	58 Flip Flop (Works or NAND and NOR Grates)							
-7	The NAND gat Flip	Plop is a memory	element w	hich is				
	used to store the							
~	It has Q and Q' as its outputs, which are always							
	complementary to each other.							
7	If Q=1: Set State.							
	It Q=0: Reset State.							
×	Types							
1-	SR Flip Flop (Set	- Reset Flip Flop)						
->	5	Q						
		2 8 8						
		The second of the original of						
	0	Q'						
	R							
		heart fold of the	NAND					
7		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	XY	F				
		No change	00	1				
	0 1 1 0	VO CHARGES	0 1	1				
		vo change)	LO	1				
		Invalid state)	11	0				
*	SR Flip Flop with &	M: Clock.	310 17, 11					
->	5 R Q Q'							
	1001							
		mory)						
	0110							
		emory)						
	0 0 Invalid							
*		THE SELECTION OF THE SE						
	Edge trigger	State and the state	10.71					

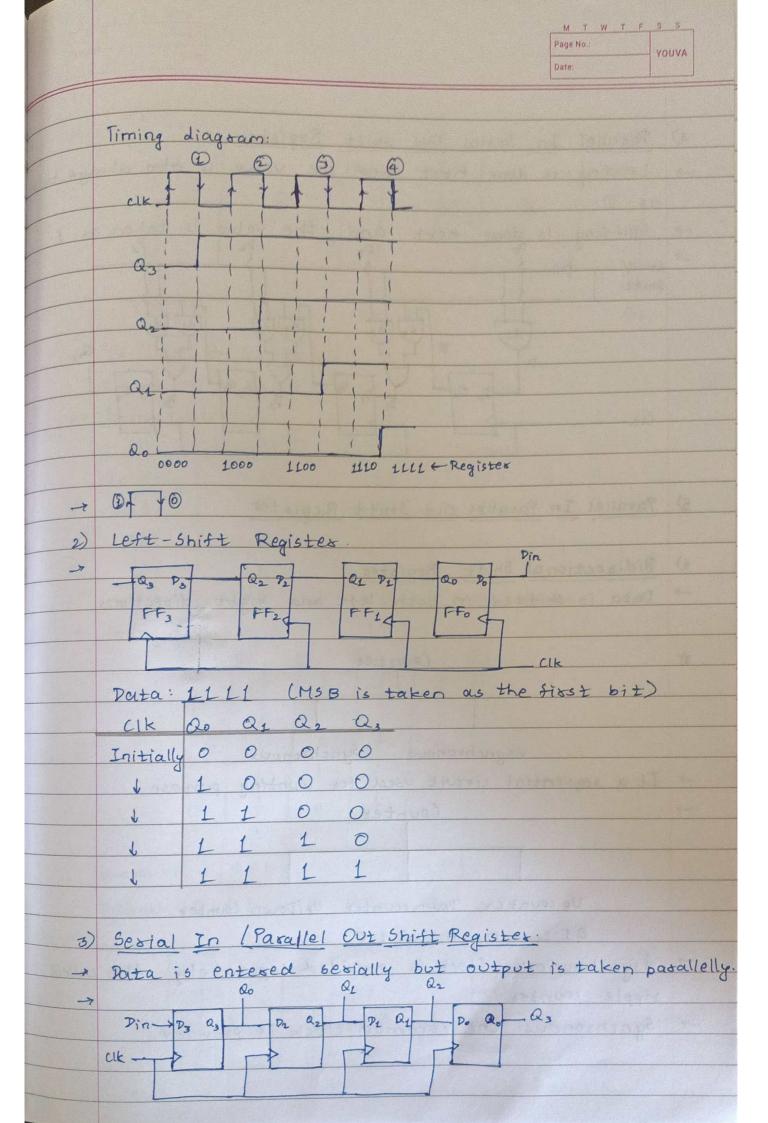


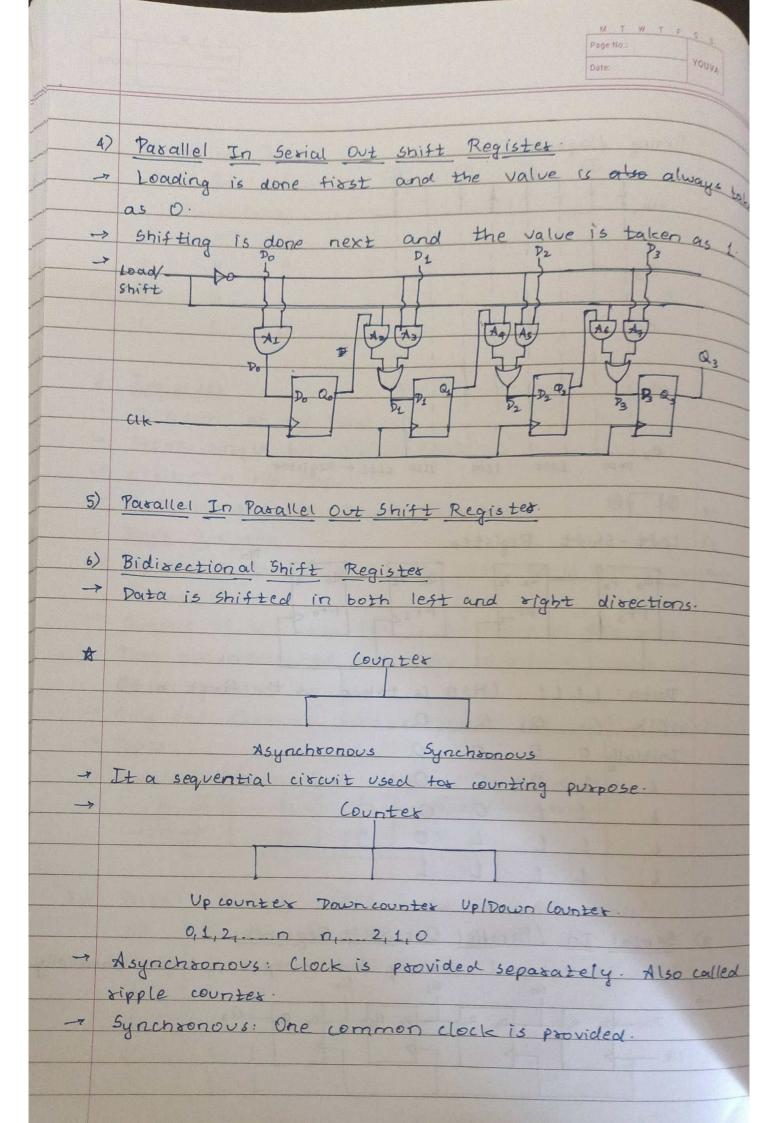


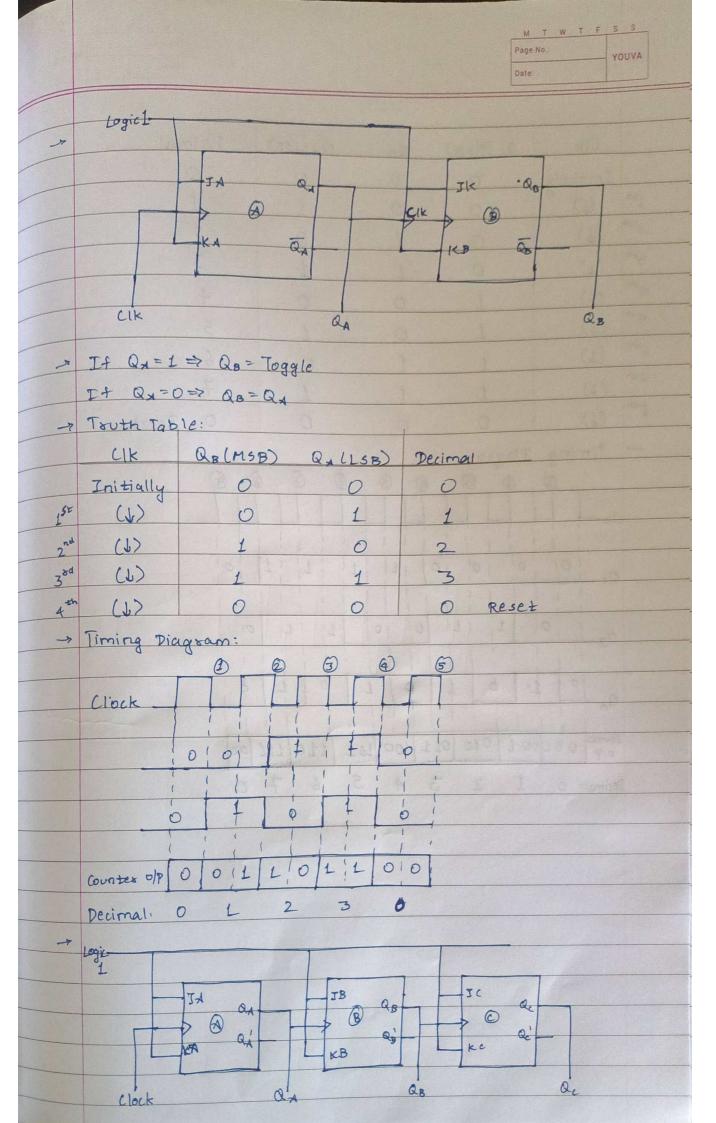
		Page Ho. H. T.
Share		Onta)
N.		
	- clock T Q Q'	
The same of the sa	O X Memory Memory	
	1 0 Memory Memory	
	1 1 Toggle Toggle	
	30 00	
	* sa Flip to Conversion	
	Touth.	
	* Convession.	
	1. 5% Flip Flop to D Flip Flop.	93
	100th Table.	
	CIK 5 R QUIL (SE)	
	X Memory	19 418
	Memory	
	1 1 -	
-		
	Characteristic Table.	
	0	
	0 0 0 0 0	
	0010	
	0101	
	0 1 1 X	
	1 0 0 1	
	1 0 1 0	
	1 1 0 1	-10 th 2
	1 1 1 ×	
	Excitation Table: Qn Qnu 5 R	
	OOOR	
	0 1 X	
	1001	
	1 1	
	XO	

7	Conversion	Table					
-	D Qn	Qnti	5 R				
+			Cfxcitatio	on Table)			
+	0 0	0	OX				
+	0 1	0	0 1		6	1	
-	1 0	1	1 0				
+	1 1	L	x o				
-							
	JK Flip Fl	op to	D Plie Fl	lop			
	Touth table				114 114	1,573,516	
-	ak J	K	Qnt	Marie .	414 10		
	0 ×				A 1 10 18		4 4
		2 1 1 2 2 2 2	Memory		11,207 5	and the last	
			0		100	101 250	
	1 1	0	1	nnie 31	s profession and	to stable	
	1 1	District Control	Toggle			A STATE OF THE STA	
4	Characteris	tic t	table	9013. 9	JA Tieng	to dupled	
	Qr J	K (20+1	Lani J	**************************************	3 2 3 5 5 5 5 5	
	0 0	0	0				
	0 0	1	0	Jane 1	AT John	3 303 93	
	0 1	0	1				
	0 1	1	×	183 170	C Jeirsi	To an analysis	
	10	0	1	100			
	1 0	1	0				
	1 1	D	1			14	
	1 1	1	X				
->	Excitation	n ta	ble:				
	Qn Qn+1	3	K				
	0 0	0	X				
	0 1	1	0				
	10	0	1				
	1 1	X	0				









CIK	Qc (MSB)	QB	Qx(LSB)	Decimal
15t Initially	0	0	0	0
and (1)	0	0	1	1
-wa (b)	0	1	0	2
4th (1)	0	1	1	3
Ben (b)	L	0	0	4
(4h)	1	0	1	5
711 (1)	1	1	0	6
8m (T)	1	1	1	7
8 CV	0	0	0	
-> Timing	Diagram			O Reset
0		3 3	6 9 6	0
CIL			TITI	T
			1111	1
Qc 101	01 101 101	1211	1 1 1	101
111		111		1
98 101	1, 11 10	0/10/	11111	01
	1111	111	12 11	
0 0 1.	TOIL	6/1	1011	1
Q _A f	1111	117	1111	0
0/P 0 0 0 0 0 0	1 010 011	100 10		
	1	1- 120		aro
Jeinal.	1 2 3	4 5	6 7	0