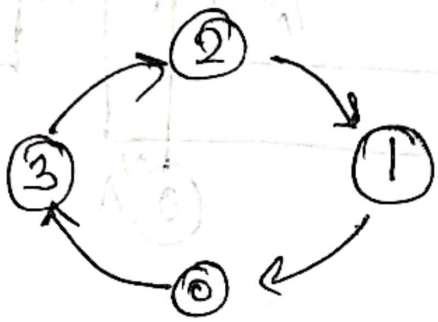
1805116

Here (1805116 % 5 = 1)

S_1 = 2, 1, 0, 3, 2, 1, 0, 3

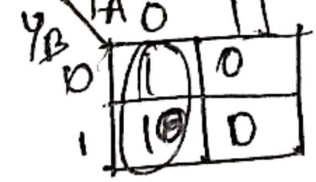
Here, state diagram.



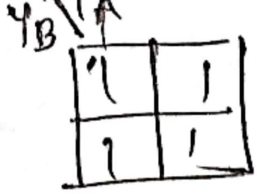
Excitation table:

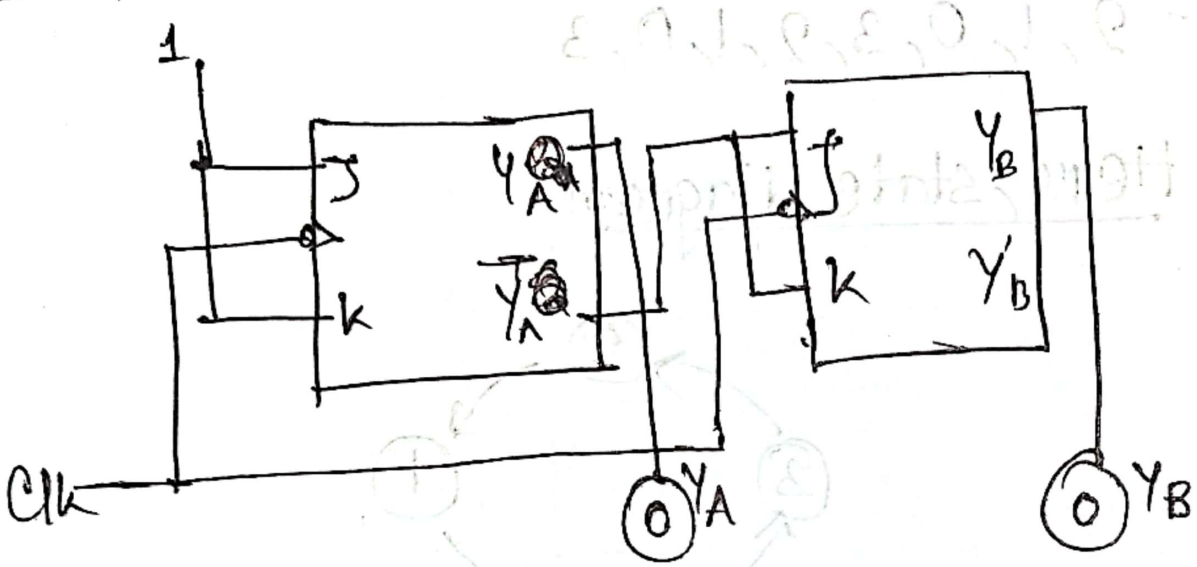
Y_B	Y_A	Y_B^+	Y_A^+	T_B	T_A
0	0	1	1	1	1
0	1	0	0	0	1
1	0	0	1	1	1
1	1	1	0	0	1

k-map for T_B, T_A:



$T_B = Y_A'$



$T_A = 1$

Circuit diagram: