

* Question 1

a)

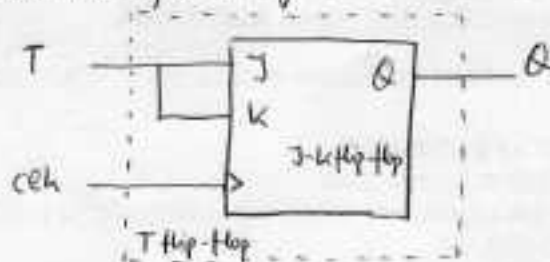
- Working table for a T flip-flop

T	Q'
0	Q
1	Q'

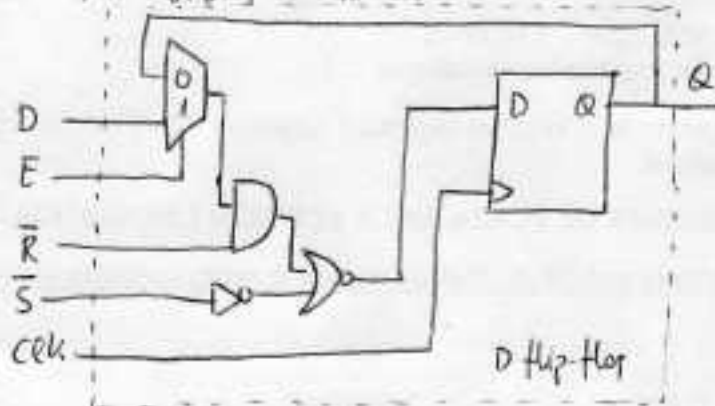
- Working table for a J-K flip-flop

J	K	Q'
0	0	Q
0	1	0
1	0	1
1	1	Q'

You need to correct the J and K inputs properly to get the working table for the T flip-flop. You can get this making a bridge between J and K, like this:

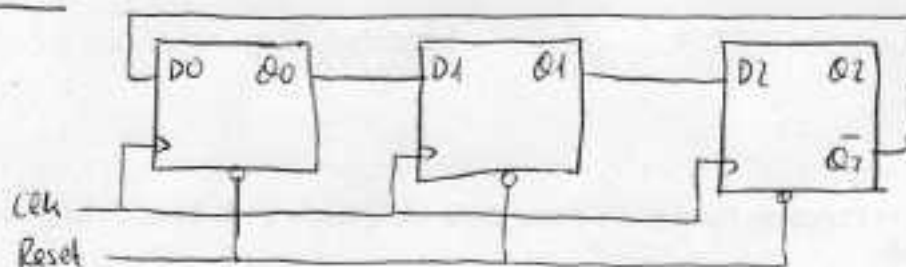


b) The circuit would be the next one:



* Question 2

a)



b)

Cycle	Q2	Q1	Q0
1	0	0	0
2	0	0	1
3	0	1	1
4	1	1	1
5	1	1	0
6	1	0	0
7	0	0	0
8	0	0	1

