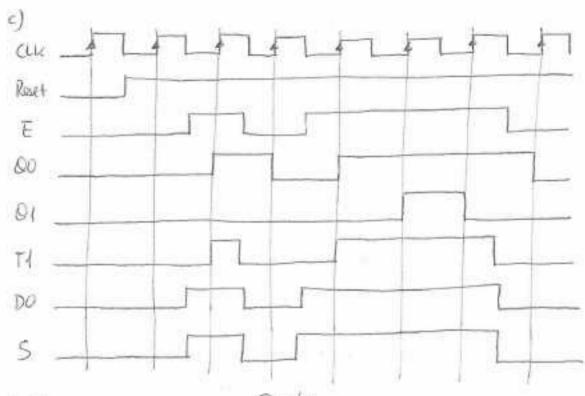
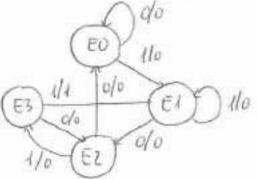
## Ourshon 3

- a) It is a leady circuit because the output dependr on the Exput and the states
- 5) Output function: S= E+01 State functions. Do = E

T1 = E . Bo



Question 4



- a) There are I input and doutput, for example, X for the input and Y for the output
- b) There are 4 states (80, Et, Ez, Ez) and this number of flip-floge must fullfill the next 2" 2N | N = number of states | N=4 => n=2 - You need 2 flip-flogs.

For the state encoding, considering the represent of the ennumbers, the only solution is:

State	Co	01	
Eo	0	0	= O In Sin decina
EI	0	4	= 4 To Beword
Ez	1	Ü	= 2 Pr definal
Ez	14	4	= 3 Pr dlumb