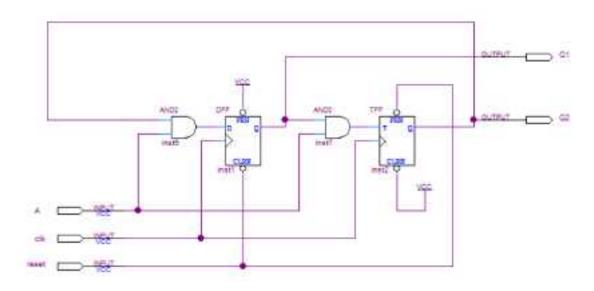
## **Biestables T**

### Problem 1 (from Second Term exam, 2015)

Given the following circuit:



- a) Get the expressions of the state functions D and T.
- b) Get the transition table of the circuit (use Q1 as MSB and Q2 as LSB).
- c) Complete the following chronogram (the state value is represented as unsigned integer, with Q1 as the MSB and Q2 as the LSB).

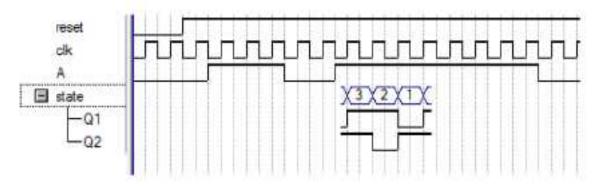
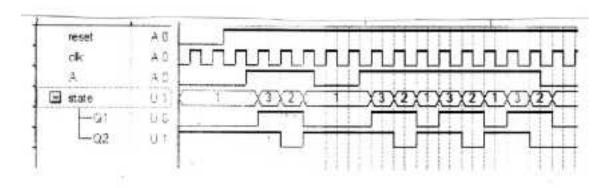


Fig. 1.1

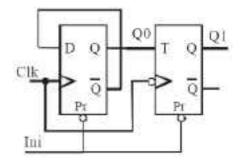
#### **SOLUTION**

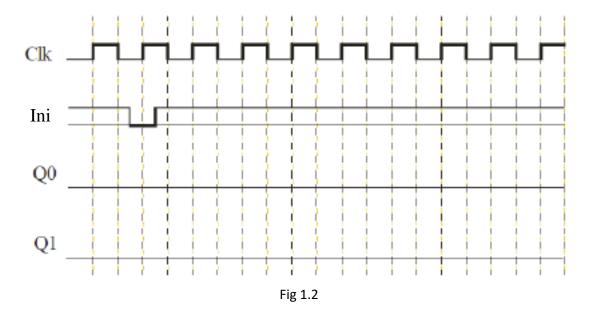
c)



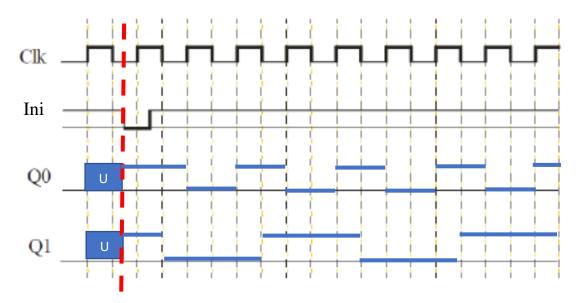
#### **Problem 2:**

Complete the following chronogram. Indicate the situations in which the output signals are undefined:



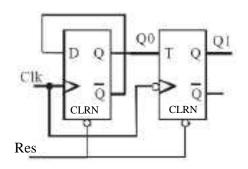


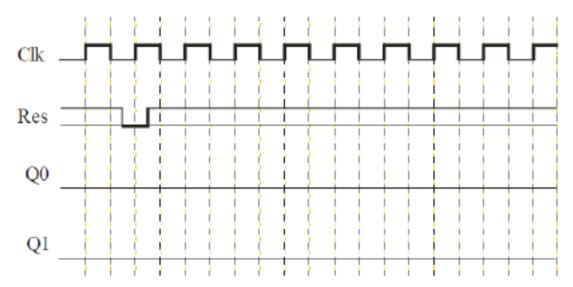
## **SOLUTION**



### Problem 3:

Complete the following chronogram. Indicate the situations in which the output signals are undefined.





# SOLUTION

