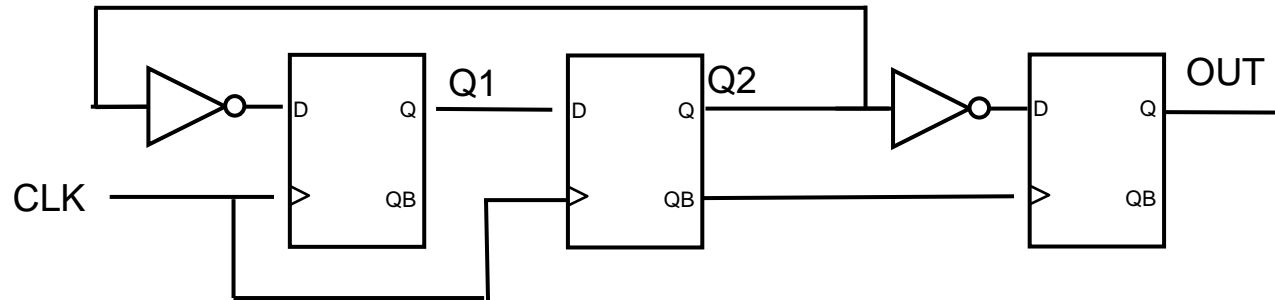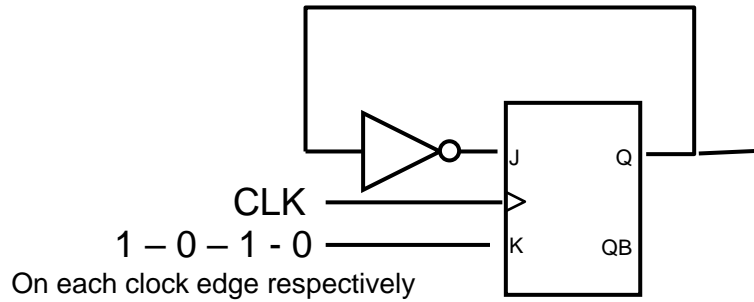# CE 1911

Homework 2

1 – Create a transition table and determine the value of OUT 30pts
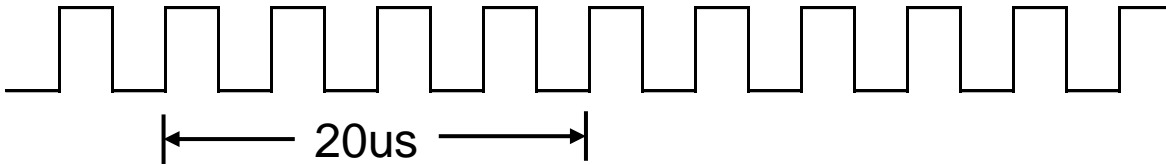
(Assume all Qs = 0 initially)

2 – Create a transition table and determine the value of Q after each clock cycle

(Assume Q = 0 initially and include it in the table)   30pts
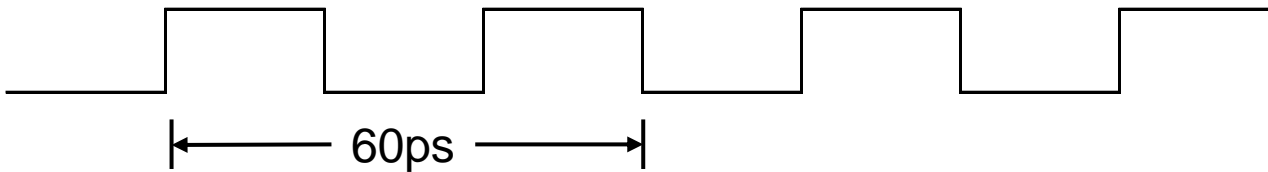
CLK

1 – 0 – 1 - 0

On each clock edge respectively

K=1 on 1st clock edge
K=0 on 2nd clock edge
K=1 on 3rd clock edge
K=0 on 4th clock edge

J   Q

K   QB

3 – Identify the period, frequency and duty cycle of each waveform
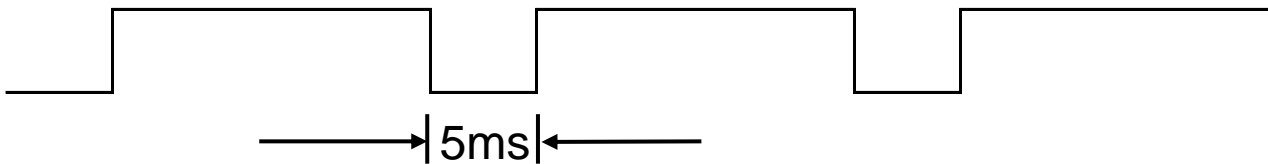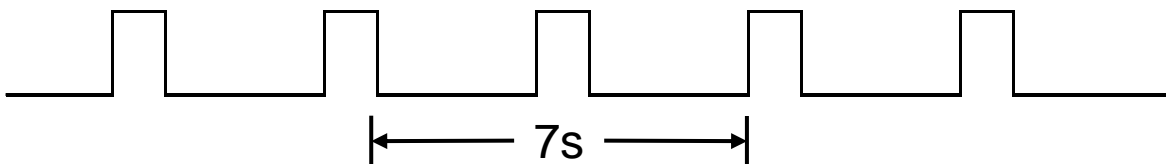   use engineering notation and without a calculator

20us

T= _____
F = _____
Duty = _____

60ps

T= _____
F = _____
Duty = _____

5ms

T= _____
F = _____
Duty = _____

7s

T= _____
F = _____
Duty = _____

4 – Write a short description of each of the following flip-flops   20pts