

CMSC 130: Laboratory Exercise #8: FLIP-FLOPS

Name: _____

Signature: _____

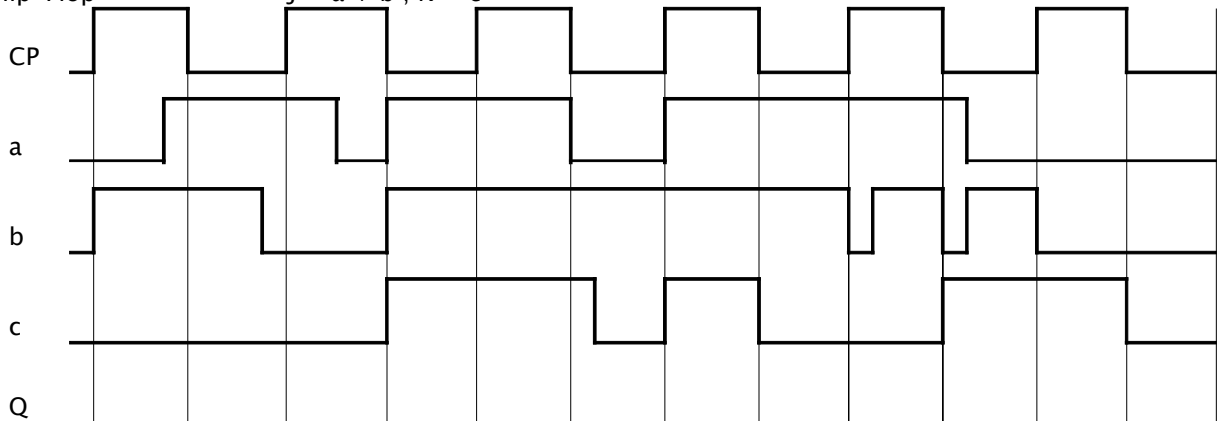
Student No: _____

Section: _____

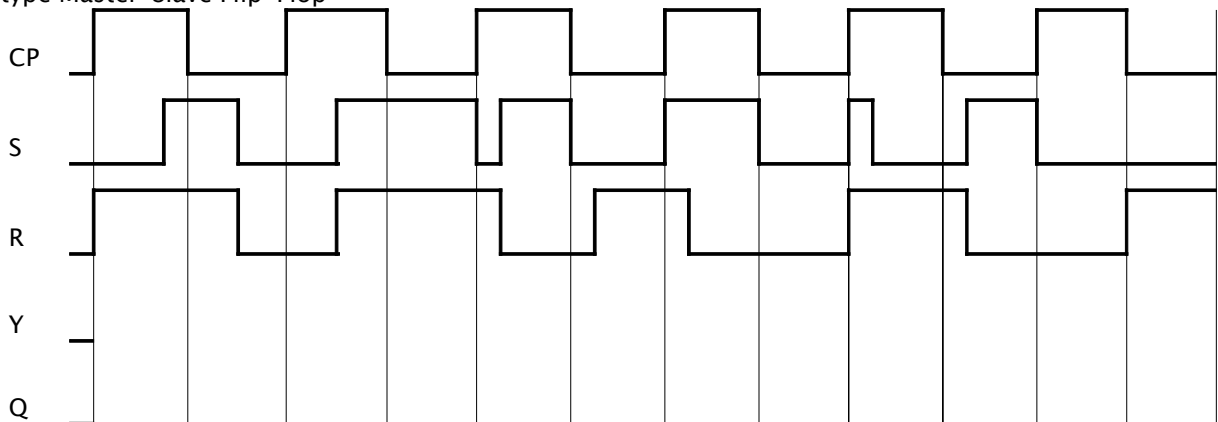
Instruction: Complete the following timing diagrams. The following are positive edge-triggered flip-flops.
Assume all flip-flops are initially in the reset state. For indeterminate case: state = 0.

1. JK Flip-Flop

$$J = a + b ; K = c$$

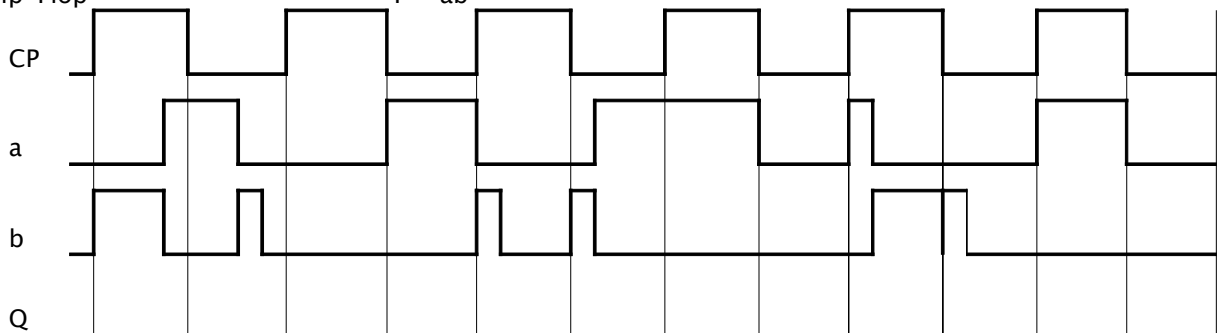


2. SR-type Master-Slave Flip-Flop



3. T Flip-Flop

$$T = ab$$



4. D-type Master-Slave Flip-Flop

