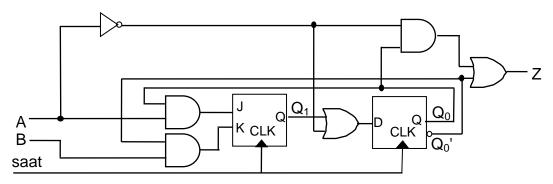
Problem Session 3

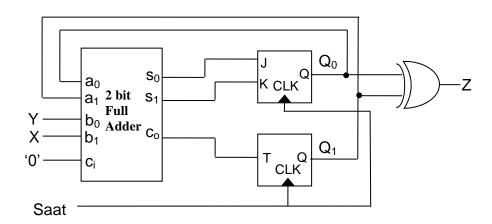
1)

- a) Analyze the given clocked synchronous circuit. Construct the State/Output table. Draw the state diagram of the circuit.
- b) Under the assumption that the circuit is in state Q1=1, Q0=0, draw the timing diagram that shows the values of Q1,Q0,Z, when the input sequence is AB=01,01,11,00.



2)

- a) Analyze the given clocked synchronous circuit. Construct the State/Output table. Draw the state diagram of the circuit.
- b) Under the assumption that the circuit is in state Q1=1, Q0=0, draw the timing diagram that shows the values of Q1,Q0,Z, when the input sequence is XY=11,11,10,00.



3)

- **a)** Analyze the given circuit by different input values. Can this circuit be used as a memory unit? Explain?
- **b)** What is propagation delay for edge triggered T flip flop? Draw the timing diagram and explain.

