

Assignment -2

B.Sc. SEM-V

Paper CC-304

UNIT – III

Flip-flops

Q:1 Explain R-S flip-flop.

Q:2 Write a note on Clocked RS flip flop.

Q:3 Write a note on D flip flop or Clocked D flip flop.

Q:4 Write a note on Edged triggered D flip flop.

Q:5 Write a note on JK flip flop.

Q:6 Write a note on Master-Slave flip flop.

Short Questions:

1. What is flip flop? 2. Draw symbol of RS flip flop. 3. Draw symbol of Clocked RS flip flop. 4. Draw symbol of D flip flop. 5. Draw symbol of Edge-Triggered RS flip flop.

UNIT – IV

Network Transformations

Q:1 Discuss and derive reduction of given complicated network to its equivalent T & π sections.

Q:2 Discuss and derive conversion between T & π sections.

Q:3 Write a note on Bridge-T network.

Q:4 Write a note on Lattice network.

Q:5 State and prove superposition theorem.

Q:6 State and prove Thevenin's theorem.

Short Questions:

1. What is Z_{1oc} ? 2. What is Z_{1sc} ? 3. What is Z_{2oc} ? 4. What is Z_{2sc} ? 5. Define Active network. 6. Define 'Loop'. 7. Define Passive network.