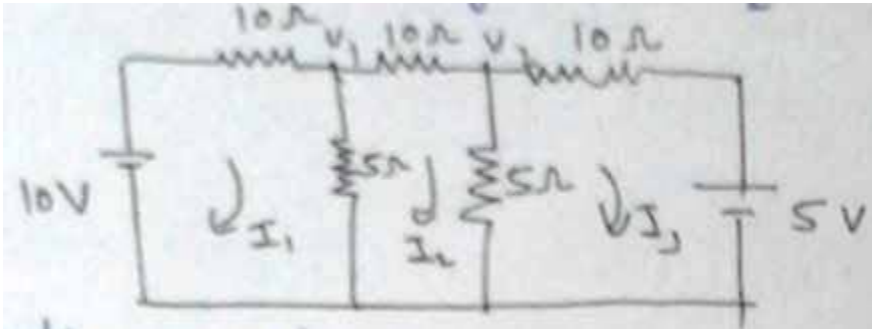


## NETWORK ANALYSIS ASSIGNMENT

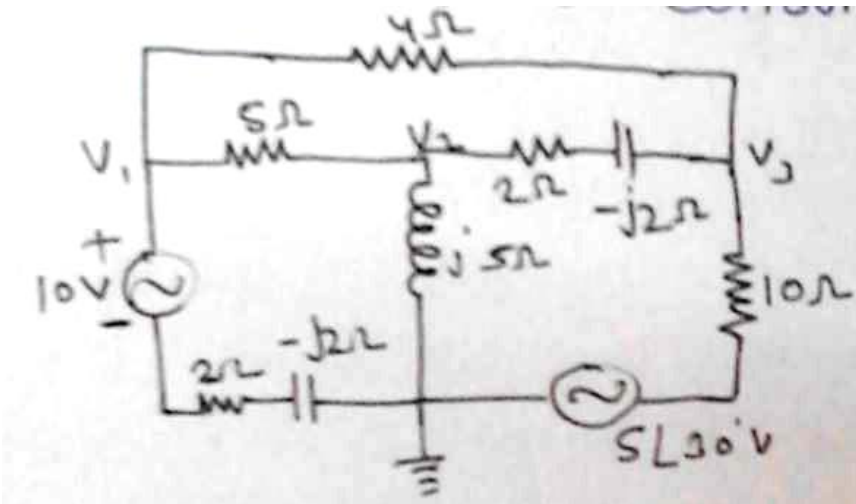
EE-304

### ASSIGNMENT 1

- Q1. Write an introductory note on lumped circuit R,L,and C
- Q2. Explain Kirchoff's law.
- Q3. Write a short note on node and mesh analysis.
- Q4. Write KVL and KCL equations for the following circuit and find node voltages V1 and V2



- Q5. Write node equations and calculate V1 V2 and V3



### ASSIGNMENT 2

- Q1. Explain Thevenin's theorem and solve any two questions.
- Q2. Explain Superposition theorem with an example.
- Q3. What do you mean by maximum power transfer for DC network.

- Q4. Explain Norton's theorem.
- Q5. Define Millman's Theorem.

### **ASSIGNMENT 3**

- Q1. Describe Laplace transform and its applications.
- Q2. Explain Laplace transformations for various types of signals.
- Q3. Write Laplace transformation for Gate Pulse.
- Q4. Explain about initial and final value theorems.
- Q5. Describe network theorems in transform domain.

### **ASSIGNMENT 4**

- Q1. Describe the concept of complex frequency.
- Q2. Explain Phasor diagrams.
- Q3. Explain Maximum Power transfer theorem for AC circuit.
- Q4. Describe Series Resonance.
- Q5. Explain Parallel Resonance..

### **ASSIGNMENT 5**

- Q1. Explain Z parameters.
- Q2. Explain Admittance parameters.
- Q3. Explain ABCD parameters.
- Q4. What are Hybrid parameters?
- Q5. Write a short note on interconnection of two ports networks.