

University of Information Technology & Sciences (UITS)
Faculty of Science and Engineering
Department of Computer Science and Engineering
Program: B.Sc. in CSE
Mid Term Examination, Autumn 2024
Course Title: Fundamentals of Electrical Engineering
Course Code: EEE 0713121

Marks: 20

Time: 1(One) hour

(Answer all questions)

1. a) Determine V_o and i_o for the circuit shown in Figure 1. [04]

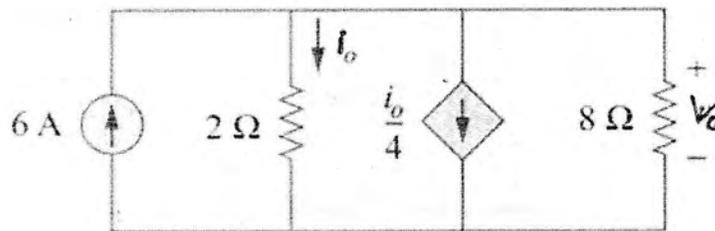


Figure 1

- b) Find the currents and voltages for the circuit shown in Figure 2 [06]

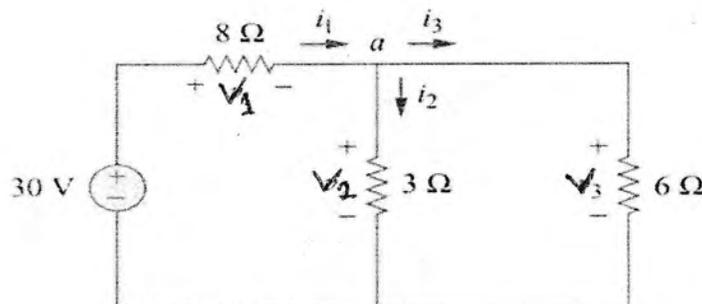


Figure 2

2. a) Determine the value of I and R_{ab} (equivalent resistance) for the circuit shown in Figure 3 [05]

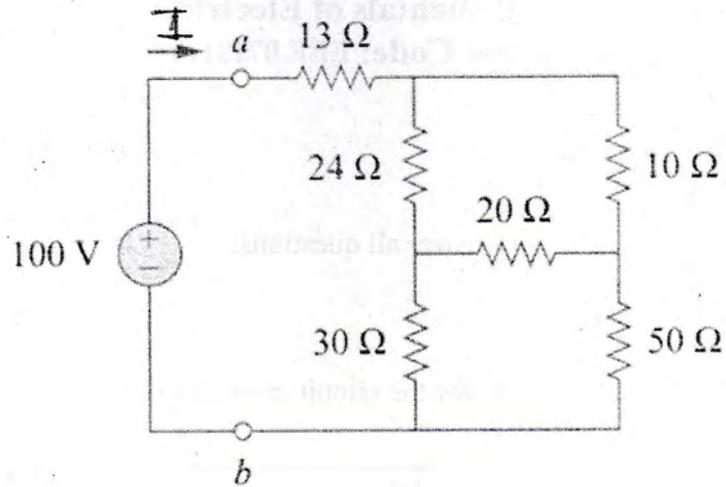


Figure 3

- b) Determine V_1 and I_1 the circuit shown in Figure 4. [05]

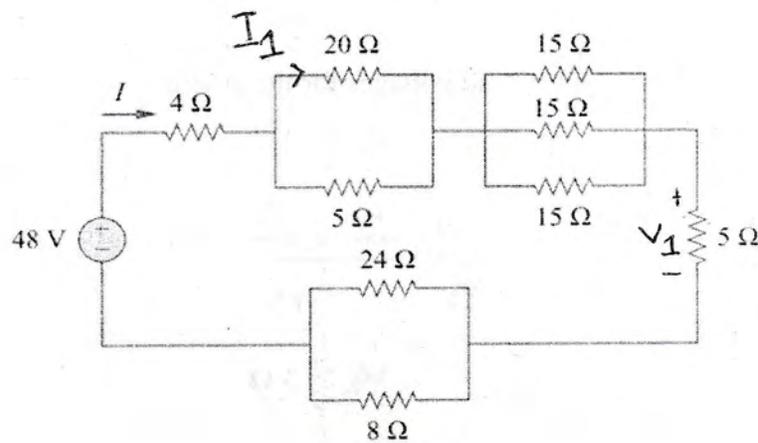


Figure 4