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, Spring 2025

Course Title: Fundamental of Electrical Engineering

Course Code: EEE 0713121

Marks: 20 **Time: 1*(One)* hour**

(Answer all questions)

Q. No.		Questions	Marks
1.	a)	Calculate v and i_x in the circuit of figure 1(a).	[04]

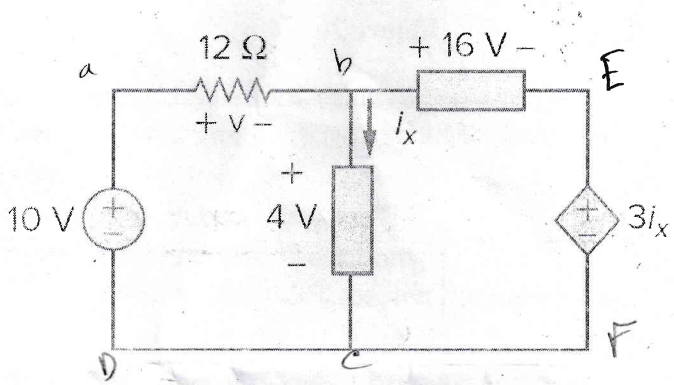

Figure 1(a)

	b)	Calculate v_1, v_2 and i_1, i_2 in the circuit of figure 1(b) using Voltage Divider and Current Divider rule.	[06]

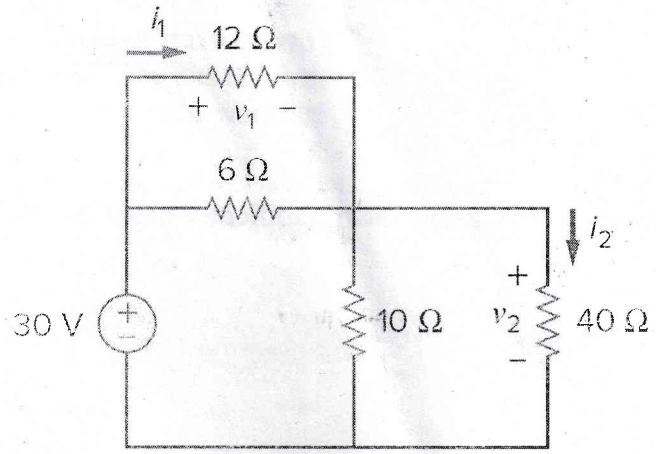

Figure 1(b)

2. a) Determine the equivalent resistance at the terminal a-b for the circuit in figure 2(a). [05]

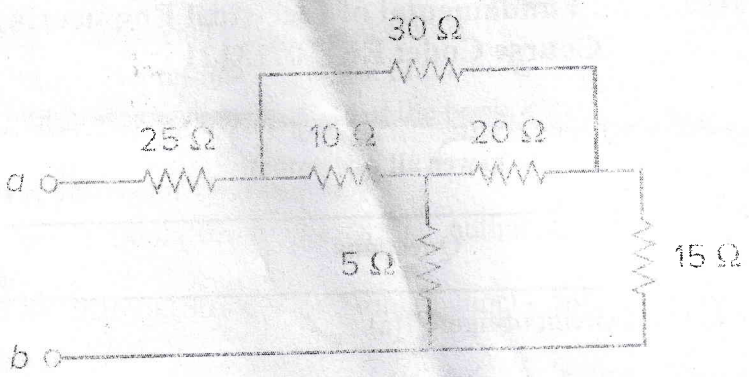

Figure 2(a)

b) Calculate v_o and i_o in the circuit of figure 2(b). [05]

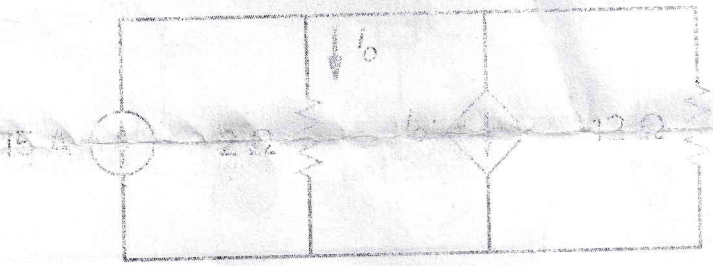

Figure 2(b)