Shahjalal University of Science and Technology
Department of Computer Science and Engineering
1st year 1st Semester Final Examination—June 2020 (Session 2019-20)
Course No.—**EEE 109D**
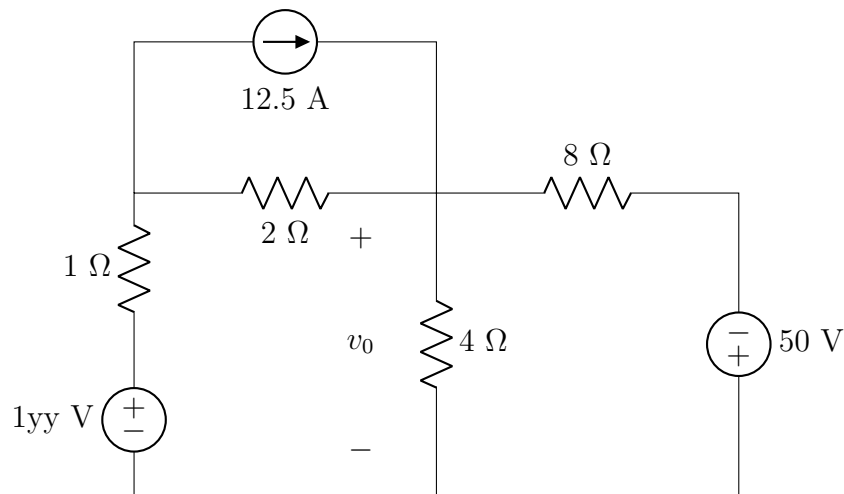Course Title—**Electrical Circuits**

Time—**5 Hours** Credit: **3.00** Total Marks#**30**

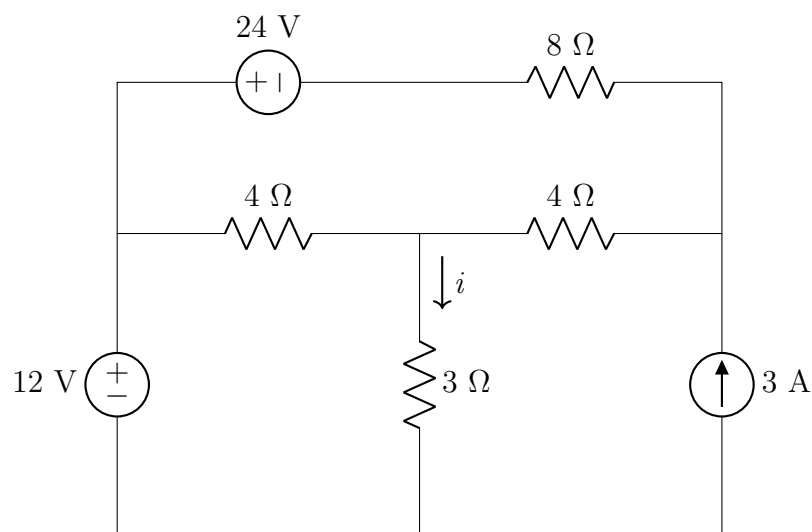(Answer All the Questions)

Group A

1. Obtain the **node voltages** in the following circuit using **nodal analysis**. Here, **yy = last two digits of your registration number.** 7.5

2. For the following circuit, use the **superposition theorem** to find the **current i**. 7.5
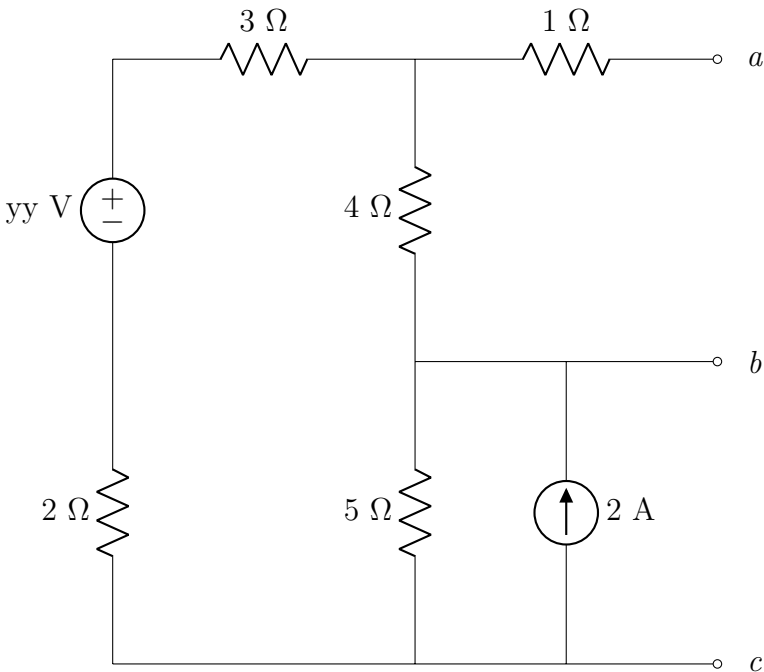
Group B

1. For the following circuit, obtain the **Thevenin equivalent** as seen from terminals **a-b**. Here, **yy** = **last two digits of your registration number.**   7.5

2. Find $i(t)$ for $t > 0$ in the following circuit. Here, **yy** = **last two digits of your registration number.**   7.5