



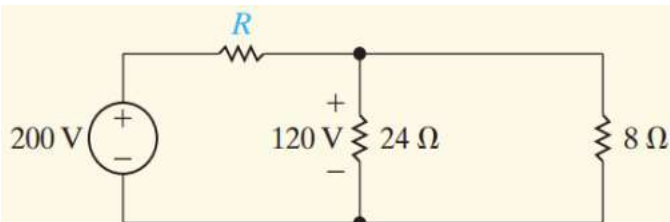
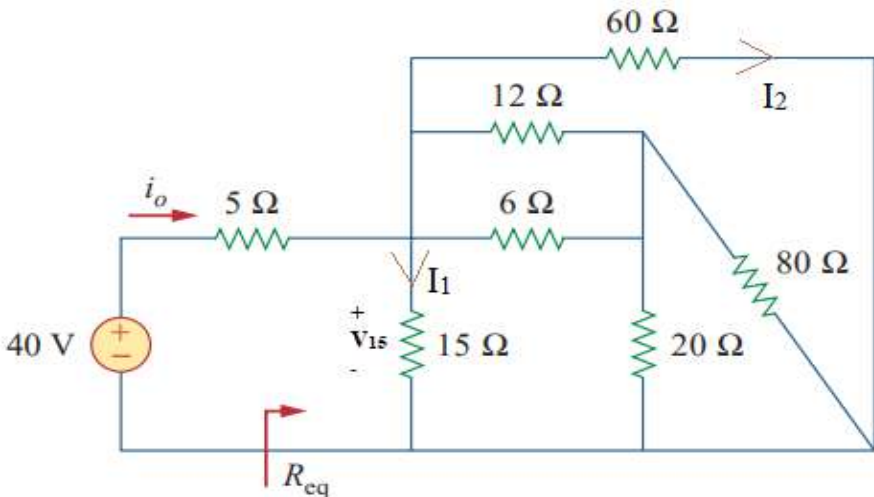
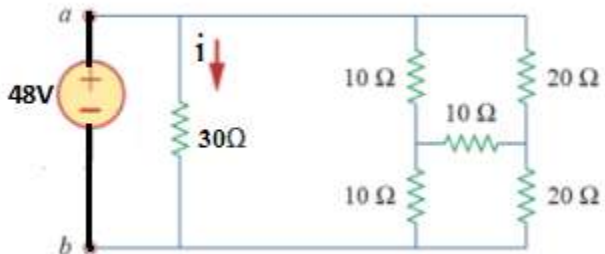
United International University

Department of Computer Science and Engineering

Course Code: EEE 2113 | Course name: Electrical Circuit

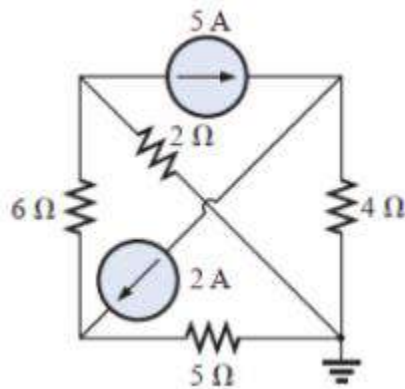
Spring2022 | MID Examination | 30 marks | 1 hour and 45 minutes

There are five (5) questions here. Answer all of them.

<p>1.</p>  <p>Use Ohm's law and Kirchhoff's laws to find the value of R in the circuit shown.</p>	<p>[5]</p>
<p>2.</p>  <p>a) Find out Req and i_o b) Find out V_{15} using voltage divider rule c) Find out I_1 and I_2 using current divider rule</p>	<p>[10]</p>
<p>3.</p>  <p>a) Find out the value of Req at terminal ab in the above circuit. b) Find out the value of i.</p>	<p>[5]</p>

4.

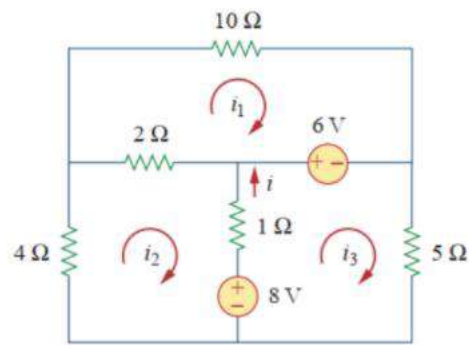
[5]



- a) Apply nodal analysis to find out the node voltages.
 b) Find out the power absorbed by the 6Ω and 5Ω resistors.

5.

[5]



Apply mesh analysis to find i and the voltage drop across the 10Ω resistor.

Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules