

United International **University**

Department of Computer Science and Engineering

Course Code: EEE 2113 | Course name: Electrical Circuit

SPRING 2021 | FINAL Examination | 40 marks | 1 hour and 30 minutes

There are four (4) questions here. You have to answer all of them.

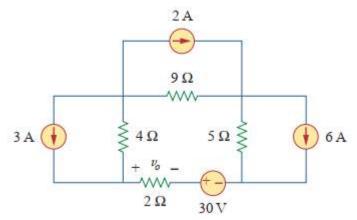
Question no - 2 has an option.

Data Generation for example ID - 011xxyyzz

Last 6 digits will be used as data	011	R_{xx}	R_{yy}	R_{zz}
Example ID	011	XX	уу	ZZ
Your ID	011			

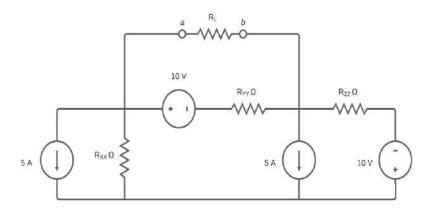
1. Use $Superposition\ theorem$ to find V_0 in the following circuit.





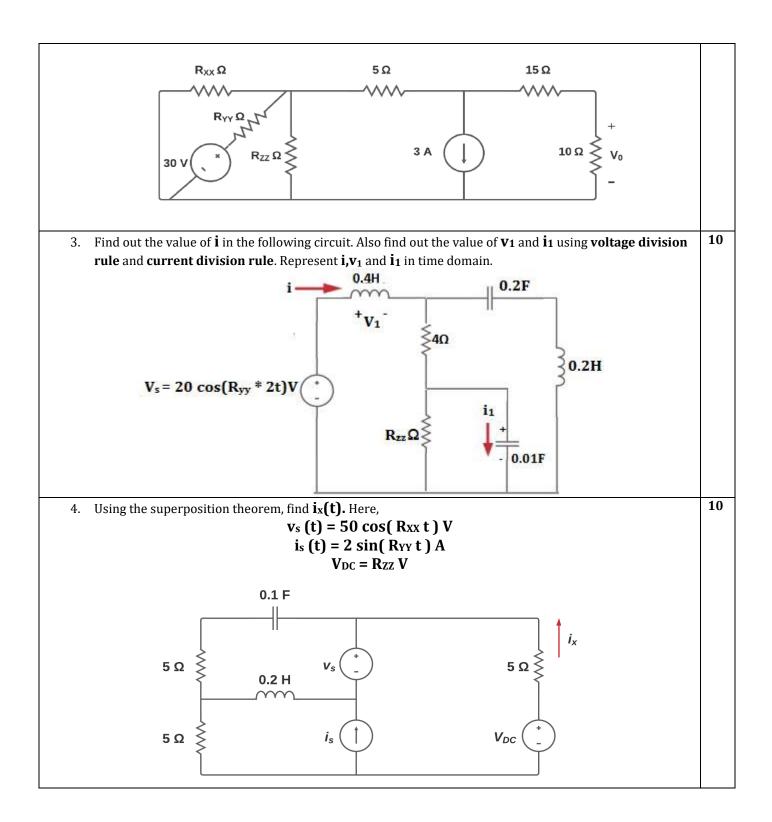
2. Obtain the **Thevenin equivalent** at terminals a-b in the following circuit. Find the **value of R**_L for maximum power absorption. Calculate the amount of **maximum absorbed power** by R_L.

10



OR

Use **Norton's theorem** to find V_0 in the following circuit.



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