Course Title: Electric Circuits 1

Date: 14/01/2018 No. of Questions: (6) Time: 2hours

Using Calculator (Yes)

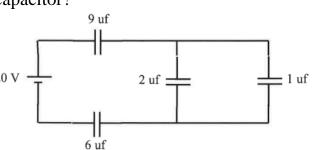
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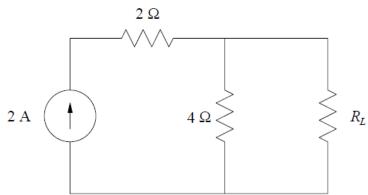
Final Exam 1st. 2018-2017 Total Grade: 50 Instructor Name: Eng. M. Timraz
Student No.:
Student Name:
College Name:
Dep. / Specialist:
Using Dictionary (No)

Question One: (05/50)

A) What is the total capacitance in the circuit? What is the charge on the plate of the 6µf capacitor?



B) Calculate what value of R_L will absorb maximum power and find the maximum power for the circuit in the following Figure. 2.5 Pt.



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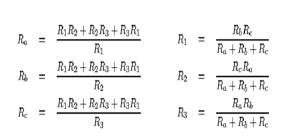


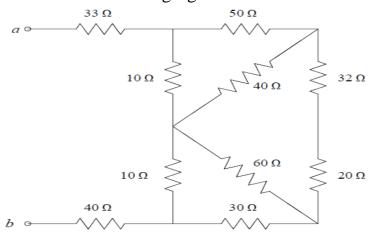
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Using Dictionary (No)	

Question Two: (05/50)

Find the equivalent resistance R_{ab} in the circuit in the following figure.





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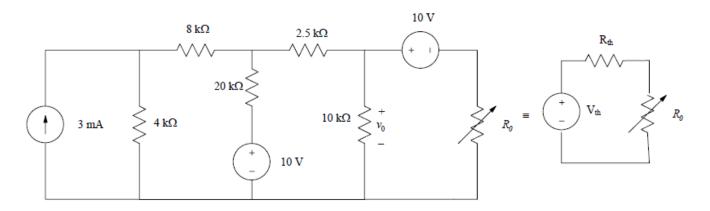
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Using Dictionary (No)	

Question Three: (10/50)

The variable resistor in the following circuit is adjusted for maximum power transfer to R_0 .

- a. Find the value of R_0 .
- b. Find the maximum power that can be delivered to R_0 .



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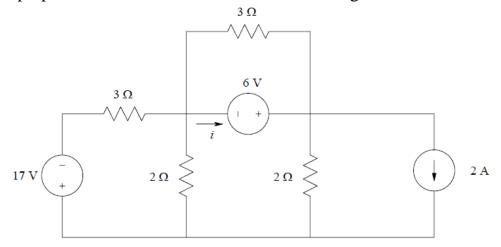


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Using Dictionary (

Question Four: (10/50)

Use the principle of superposition to find i in the circuit in the Figure below.



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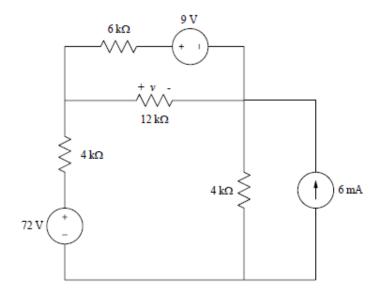


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Using Dictionary (No)	

Question Five: (10/50)

Find V in the circuit in figure below by using source transformation.



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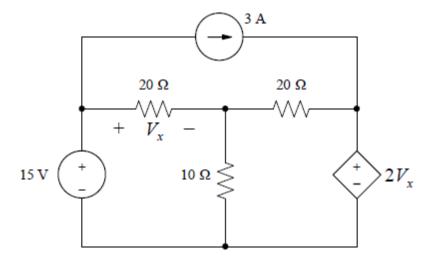


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Using Dictionary (No)	_

Question Six: (10/50)

In the circuit below, find the voltage V_x using mesh analysis.



End of Questions Good Luck