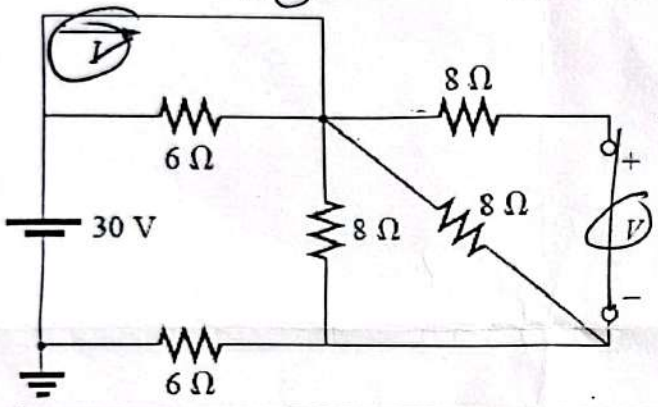
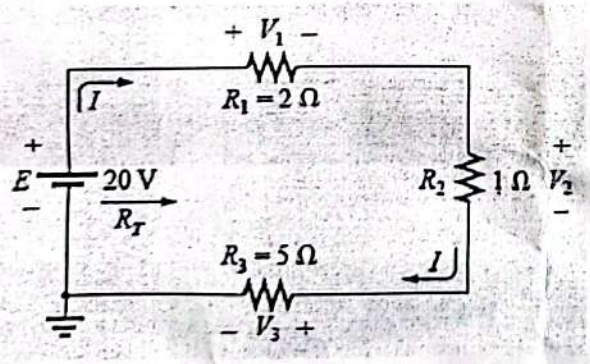
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Daffodil International University

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Fall-2024
Course Code: CSE121, Course Title: Electrical Circuits
Quiz-01. V1

1.	a)	Define voltage, current and resistance. Explain how these terms are associated using Ohm's law.	2
	b)	What are the factors on which the resistance of a material depends? What are the temperature coefficients of conductors, insulators, semiconductors and superconductors?	3
2.		Determine the voltage V and the current I for the network of Fig. 	5
3.		a. Find the total resistance, current, and voltage across each element. b. Find the power delivered to each resistor. c. Calculate the total power delivered to all the resistors. d. Find the power delivered by the source. e. How does the power delivered by the source compare to that delivered to all the resistors? f. Which resistor received the most power? Why? 	5