Introduction to electrical circuits

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Class: ELT 201	Date:	
Test #	Results:	

Carefully read each question, and circle the letter next to the correct answer.

- 1. Which material would be the best conductor for electricity?
 - a. Silicon
 - b. Porcelain
 - c. Plastic
 - d. Gold
- 2. What number of electrons are typically found in the valence shell of a conductor?
 - a. 3 or more
 - b. 3 or less
 - c. 4
 - d. 5 or more
- 3. Which of the following terms is another way of defining voltage?
 - a. Resistance
 - b. Current
 - c. Electromotive force
 - d. Coulomb

Resistance in a circuit is measured in? a. Volts b. Ohms c. Amps d. Joules
In Ohms law the symbol "E" represents a. Resistance b. Watts c. Amps d. Volts
E= a. I×R b. I÷R c. R ² d. I ²
Current equals voltage divided by a. Watts b. Volts c. Joules d. Resistance
When 100 ohm, 50 ohm, and 10 ohm resistors are connected in parallel, the total circuit resistance will always be? a. Less than 10 ohm b. Greater than 100 ohm c. The root mean square of 160 ohm d. The average of the three resistors

(1 (How must a voltmeter be connected to measure the voltage applied to a component? a. With the circuit disconnected b. In series with the component c. With the circuit de-energized d. Across the component
6 	To check the direction of rotation of a three phase motor, use a a. Voltmeter b. Ammeter c. Phase sequence rotation meter d. High pot
6 	The prefix used to indicate one thousand is? a. Mega b. Kilo c. Micro d. Milli
6 	An instrument used to measure resistance is called a(n)? a. Voltmeter b. Ohmmeter c. Ammeter d. Pedometer