

Chapter 2

1. What is Ohm's law and how can it be used to determine resistance?
2. What is a voltage drop in a circuit and what causes it?
3. State Kirchhoff's voltage law and illustrate it with your own example.
4. What is a "short circuit" and why is it bad.
5. Define "open" as it pertains to an electric circuit.

Chapter 4

6. Define reluctance, magnetic flux, and magnetomotive force and describe the relationship between them.
7. What are the defining characteristics of inductance?
8. State and explain Lenz's law.
9. State and explain Faraday's law.
10. Sketch the current and voltage waves for a capacitor connected to a sinusoidal source.

Chapter 5

1. What are the defining characteristics of capacitance?
2. What factors determine the capacitance of a parallel plate capacitor?
3. What is the recommended safe procedure for discharging a large capacitor?
4. What is meant by the time constant of an electric circuit?
5. Sketch the current and voltage waves for a capacitor connected to a sinusoidal source.