Chapter 34 Four-square concept questions

**Electric Current (Section 34.2,34.5,34.7,34.10)**

*Directions: Complete the following questions using the above sections. Provide evidence for each question (page #).*

**Definition of Electric current with symbols and unit:**

**Q1:** What is Ohm’s Law (the formula)?

**Q2:** When you plug in a cord, where do the electrons come from?

**Q3:** Whether is cord is unplugged or plugged in, what is the net charge in the wire?

**Q4:** What is the difference between DC and AC current?

**Resistance (Section 34.4, 34.5)**

*Directions: Complete the following questions using the above sections. Provide evidence for each question (page #).*

**Definition of Resistance with symbols and unit:**

**Q5:** How are current and resistance related?

**Q6:** What 3 characteristics of a wire give it MORE resistance?

**Q7:** What 3 characteristics of a wire give it LESS resistance?

**Voltage ( Potential Difference) Section (34.1, 34.2, 34.3, 34.5)**

*Directions: Complete the following questions using the above sections. Provide evidence for each question (page #).*

**Definition of Voltage with symbols and unit:**

**Q8:** How are current and voltage related?

**Q9:** What are 2 voltage sources?

**Q10:** What is meant by “electric pressure”?

**Electric Power (34.11)**

*Directions: Complete the following questions using the above sections. Provide evidence for each question (page #).*

**Definition of Electric Power with symbols and unit:**

**Q11:** What are our common household units for electric power?

**Q12:** What are common household unit for electric energy?