**Section 12 Questions**

1. A component that has the ability to store electrical charge is known as a/an:
   1. Resistor
   2. LED
   3. Diode
   4. Current
   5. Capacitor
   6. Switch
2. A capacitor is a:
   1. Component that restricts the current flow of a circuit.
   2. Component that has the ability to store an electrical charge.
   3. Component that measures the net flow of electrons.
   4. Component that supplies the mechanical or electrical work..
   5. Symbol of work
   6. Symbol of the potential difference of the electron supply and shortage.
3. What is the difference between a capacitor and a battery?
   1. Batteries can be purchased while you must create a capacitor.
   2. Batteries are made of two plates separated by non-conducting dielectric.
   3. Batteries store electrical charge in chemical bonds.
   4. Capacitors are typically much larger than batteries.
   5. Capacitors hold charge while batteries push charge.
   6. There is no difference between a capacitor and a battery.
4. The schematic symbol below signifies a/an:



* 1. Capacitor
  2. Resistor
  3. Battery
  4. Diode
  5. LED
  6. Conductor

1. True or false, polarized capacitors have the same schematic symbol as a non-polarized capacitor.
   1. True
   2. False
2. How did electrolytic capacitors get their name?
   1. They break up hydrogen and oxygen atoms when introduced to water
   2. It sounded cool
   3. After the inventor
   4. The process used to manufacture the capacitor
   5. They are full of electrolytes
   6. None of the above
3. What kind of capacitor would work best if the capacitance needs to be adjusted or changed over time?
   1. Non-polarized capacitor
   2. Polarized capacitor
   3. Electrolytic capacitor
   4. Ceramic capacitor
   5. Variable capacitor
   6. None of the above
4. What kind of capacitor would most likely be used to filter out unwanted AC signals in DC circuits?
   1. Non-polarized capacitor
   2. Polarized capacitor
   3. Electrolytic capacitor
   4. Ceramic capacitor
   5. Variable capacitor
   6. None of the above