

Chapter 7

- 7.1 The following parts can be built into an integrated circuit except . . .
- A. resistors
 - B. LEDs
 - C. transistors
 - D. capacitors
- 7.2 Which of these are advantages of integrated circuits?
- A. Cost
 - B. Size
 - C. Reliability
 - D. All of the above.
- 7.3 The average American home has fewer than ten integrated circuits used throughout all the electronic products in it.
TRUE or FALSE?
- 7.4 The integrated circuits in some modern computers have more than a million transistors in them.
TRUE or FALSE?
- 7.5 Integrated circuit manufacturing is so specialized that particles of dust can ruin parts.
TRUE or FALSE?

Chapter 8

- 8.1 The electricity at the electrical outlets in your home . . .
- A. is 60V.
 - B. is alternating current.
 - C. has a frequency of 120Hz.
 - D. is direct current.
- 8.2 Why do electric companies use high voltages when transporting electricity over long distances?
- A. Higher voltages and lower currents reduce power loss in the wires.
 - B. The equipment on the receiving end needs a high voltage.
 - C. Low voltage circuits cannot transport energy over long distances.
 - D. High voltages are safer than low voltages.

- 8.3 The following are advantages of transformers except . . .
- A. they can isolate circuits, since the connection is magnetic and not electrical.
 - B. they can change the voltage in a circuit without wasting power.
 - C. they are equally useful in both AC and DC circuits.
 - D. they allow one circuit to create a current in another using magnetic fields.
- 8.4 How can you increase the inductance of a coil?
- A. Place an iron bar inside the coil.
 - B. Use less loops of wire in the coil.
 - C. Place a plastic bar inside the coil.
 - D. Use thicker wire in the coil.
- 8.5 Inductors are made to . . .
- A. block high frequency signals.
 - B. store electrical energy as magnetic energy.
 - C. pass low frequency signals.
 - D. all of the above.
- 8.6 Frequency modulation . . .
- A. is less protected from interference than AM
 - B. uses one signal to change the frequency of another.
 - C. uses 7kHz channel bands.
 - D. was the first system for radio broadcasts to be widely used.
- 8.7 The electricity supplied by a battery is an example of AC power.
TRUE or FALSE?
- 8.8 AM radio circuits are more complex than FM radio circuits.
TRUE or FALSE?
- 8.9 The inductance of a coil is measured in Henrys.
TRUE or FALSE?
- 8.10 The Federal Trade Commission (FTC) regulates use of the radio frequency spectrum in the United States.
TRUE or FALSE?

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