

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) An electrical circuit uses 12 volts and has a current flow of 2 amps. What is the wattage? 1) \_\_\_\_\_  
A) 24 watts  
B) 6 watts  
C) 12 watts  
D) None of these
  
- 2) A sheet metal screw holding a metal body panel has pierced the insulation of a wire and is touching the copper wire. This would cause a \_\_\_\_\_. 2) \_\_\_\_\_  
A) short to ground  
B) short to power  
C) high resistance  
D) none of these
  
- 3) In an open circuit \_\_\_\_\_. 3) \_\_\_\_\_  
A) no current will flow  
B) no voltage is present  
C) both A and B  
D) neither A nor B
  
- 4) A complete circuit that is continuous from source through loads and back to ground has \_\_\_\_\_. 4) \_\_\_\_\_  
A) continuity  
B) congruency  
C) both A and B  
D) neither A nor B
  
- 5) If 12 volts are being applied to a resistance of 3 ohms, \_\_\_\_\_ amperes will flow. 5) \_\_\_\_\_  
A) 12  
B) 3  
C) 4  
D) 36
  
- 6) How many watts are consumed by a light bulb if 1.2 amperes are measured when 12 volts are applied? 6) \_\_\_\_\_  
A) 14.4 watts  
B) 144 watts  
C) 10 watts  
D) 0.10 watt
  
- 7) A circuit with excessive current flow \_\_\_\_\_. 7) \_\_\_\_\_  
A) may create excess heat in conductors  
B) may cause a fuse to blow  
C) both A and B  
D) neither A nor B

- 8) An open electrical circuit has zero ohms resistance. 8) \_\_\_\_\_  
A) True  
B) False
- 9) A circuit with a short to voltage may cause \_\_\_\_\_. 9) \_\_\_\_\_  
A) other circuits to malfunction  
B) improper operation of loads in the circuit  
C) both A and B  
D) neither A nor B
- 10) Excessive corrosion on an electrical connector \_\_\_\_\_. 10) \_\_\_\_\_  
A) can cause a fuse to blow  
B) can cause lights to be dim  
C) both A and B  
D) neither A nor B