

Name \_\_\_\_\_

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

- 1) In an incomplete circuit \_\_\_\_\_. 1) \_\_\_\_\_  
A) no current will flow  
B) no voltage is present  
C) Both A and B  
D) Neither A nor B
  
- 2) How many watts are consumed by a starter motor if it draws 150 amperes at 10 volts? 2) \_\_\_\_\_  
A) 15 watts  
B) 150 watts  
C) 1500 watts  
D) 15000 watts
  
- 3) If 12 volts are being applied to a resistance of 3 ohms, \_\_\_\_\_ amperes will flow. 3) \_\_\_\_\_  
A) 12  
B) 3  
C) 4  
D) 36
  
- 4) How much current will flow in a 12 volt circuit with a single load (bulb) of 48 ohms? 4) \_\_\_\_\_  
A) 4 amps  
B) 0.25 amps  
C) 20 amps  
D) 12 amps
  
- 5) Excessive corrosion on an electrical connector \_\_\_\_\_. 5) \_\_\_\_\_  
A) can cause a fuse to blow  
B) can cause lights to be dim  
C) Both A and B  
D) Neither A nor B
  
- 6) If 200 amperes flow from the positive terminal of a battery and operate the starter motor, how many amperes will flow back to the negative terminal of the battery? 6) \_\_\_\_\_  
A) 200 amperes  
B) Zero  
C) About one-half (100 amperes)  
D) Cannot be determined
  
- 7) Which circuit failure is most likely to cause a fuse to blow? 7) \_\_\_\_\_  
A) Open  
B) Short-to-voltage  
C) Short-to-ground  
D) High resistance

- 8) In a circuit with high resistance \_\_\_\_\_. 8) \_\_\_\_\_
- A) electrical loads may still operate but less efficiently
  - B) no electrical device will function
  - C) Both A and B
  - D) Neither A nor B
- 9) If two insulated wires were to melt together where the copper conductors touched each other, the type of failure would be called a(an) \_\_\_\_\_. 9) \_\_\_\_\_
- A) short-to-voltage
  - B) short-to-ground
  - C) open
  - D) floating ground
- 10) A shorted circuit \_\_\_\_\_. 10) \_\_\_\_\_
- A) could include an open circuit
  - B) always causes the fuse to blow
  - C) Both A and B
  - D) Neither A nor B

## Answer Key

Testname: AEEP8\_4B

1) A

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2) C

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3) C

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4) B

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5) B

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6) A

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7) C

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8) A

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9) A

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10) D

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