Automotive Electricity and Electronics, 6th Edition Quiz 6B

Name

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

- A series circuit has three resistors of 4 ohms each. The voltage drop across each resistor is 4 volts.
 Technician A says that the source voltage is 12 volts. Technician B says that the total resistance is 18 ohms. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 2) Which one of the bulbs in this circuit will drop (use up) the most voltage?

2)

3)



A) Bulb 3

- B) Bulb 2
- C) Bulb 1
- D) They will all drop the same amount of voltage.
- 3) Three light bulbs are wired in series. A fourth bulb is connected to the circuit in series. Technician A says that the total voltage drop will increase. Technician B says that the current (amperes) will decrease. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician



4) _____

D) Neither A nor B

9) A series circuit has two 10-ohm bulbs. A third 10-ohm bulb is added in series. Technician A says
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9

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

10) Ohm's law takes into consideration the heat generated by resistance in an energized circuit. 10)

- A) True
- B) False

Answer Key Testname: AEE6_6B

- 1) A Page Ref: 74 2) A Page Ref: 74 3) B Page Ref: 76 4) C Page Ref: 77 5) A Page Ref: 74-75 6) C Page Ref: 72 7) D Page Ref: 72 8) C Page Ref: 75 9) A Page Ref: 75-76
- 10) B
 - Page Ref: 72