

Automatic Transmissions and Transaxles 8th Edition

Chapter 9

Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary role of electrons in an atom in the context of electricity?

- A. They orbit the nucleus
- B. They are positively charged
- C. They remain stationary
- D. They are found in the nucleus

2. In automotive applications, electricity typically flows from:

- A. Negative to positive
- B. Only within a closed circuit
- C. Alternating between positive and negative
- D. Positive to negative

3. A material is considered a conductor if it has how many electrons in its atom's outer orbit?

- A. Less than 2
- B. Less than 4
- C. Exactly 4
- D. More than 4

4. The ampere is a unit of measurement for:

- A. Electrical resistance
- B. Electrical pressure
- C. Electrical current flow
- D. Electrical charge

5. What does voltage in an electrical circuit represent?

- A. Electrical pressure
- B. Electrical resistance
- C. Electrical charge
- D. Electrical power

6. In electrical terms, what is an 'open' in a circuit?

- A. A short circuit
- B. A break in the circuit
- C. An overload
- D. A complete connection

7. What is the function of a digital multimeter (DMM) in automotive electronics?

- A. To measure temperature
- B. To check fluid levels
- C. To test paint thickness
- D. To measure electrical resistance

8. What is typically used in automotive circuits for circuit protection?

- A. A resistor
- B. A capacitor
- C. A fuse
- D. A transformer

9. How is a voltmeter connected in a circuit?

- A. In series
- B. In parallel
- C. Directly to the battery
- D. In place of the load

10. The term 'short-to-ground' in automotive electronics refers to:

- A. A break in the circuit
- B. A connection to the vehicle's body
- C. An overload condition
- D. A normal operating condition

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Answer Key

1. A

2. D

3. B

4. C

5. A

6. B

7. D

8. C

9. B

10. B