Automotive Electrical and Engine Performance 9th Edition Chapter 2 – Electrical Fundamentals Multiple Choice Questions Quiz A

1. What is the primary function of an ammeter?
a) Measure electrical resistance
b) Measure electrical current
c) Measure voltage
d) Measure capacitance
2. An atom with more electrons than protons is called a(n)
a) Conductor
b) Insulator
c) Ion
d) Semiconductor
3. Which material is commonly used as a conductor in automotive applications due to its low resistance and reasonable cost?
a) Silver
b) Aluminum
c) Copper
d) Gold
4. In a balanced atom, the number of is equal to the number of
a) Electrons; ions
b) Electrons; protons
c) Neutrons; electrons
d) Neutrons; ions



5. Materials that have tightly held electrons in their valence ring and resist the flow of current are known as:
a) Conductors
b) Semiconductors
c) Insulators
d) Superconductors
6. Which unit measures the electrical pressure, also known as electromotive force?
a) Ohm
b) Ampere
c) Watt
d) Volt
7. A device that controls the flow of electrical current by providing a variable resistance is called a:
a) Potentiometer
b) Conductor
c) Capacitor
d) Diode
8. The phenomenon where electricity is generated by applying pressure to certain crystals is called:
a) Photoelectricity
b) Thermoelectricity
c) Piezoelectricity
d) Electrochemistry
9. Which theory states that current flows from positive to negative in a circuit?
a) Static theory
b) Electron theory
c) Conventional theory
d) Electric theory



- 10. What is used to measure the opposition to electron flow in a conductor?
- a) Voltmeter
- b) Ammeter
- c) Ohmmeter
- d) Galvanometer



Automotive Electrical and Engine Performance 9th Edition Chapter 2 – Electrical Fundamentals Answer Key Quiz A

Correct Answers:

- 1. b
- 2. c
- 3. c
- 4. b
- 5. c
- 6. d
- 7. a
- 8. c
- 9. c
- 10. c

