

Name: _____

Date: _____

1. What should a good battery have as a voltage reading under load at the end of a 15-second high-rate discharge test?
 - A. 9.0 volts
 - B. More than 9.6 volts
 - C. At least 10.2 volts
 - D. At least 10.8 volts

2. Why is it essential for technicians to wear protective clothing and eye protection when working around batteries?
 - A. The battery may be hot.
 - B. Explosive gases might be present around the battery.
 - C. Battery cables can cause punctures.
 - D. The battery might emit harmful radiation.

3. What is the normal battery drain (parasitic drain) in a vehicle with many computer and electronic circuits?
 - A. 20 to 30 milliamperes
 - B. 2 to 3 amperes
 - C. 150 to 300 milliamperes
 - D. 500 to 600 milliamperes

4. When jump-starting a vehicle, what should be the last connection?
 - A. Positive post of the dead battery
 - B. Engine block of the dead vehicle
 - C. Negative post of the good battery
 - D. Chassis of the good vehicle

5. What are the results of a voltmeter test of a battery used to determine?
 - A. The battery's weight
 - B. The battery's state of charge
 - C. The battery's manufacturing date
 - D. The battery's brand

6. What is the primary purpose of performing a battery load test?
 - A. To measure the battery's weight
 - B. To determine the battery's manufacturing defects
 - C. To check the battery's ability to maintain voltage under load
 - D. To check the battery's physical dimensions

7. Why should a battery not be fast charged?
 - A. It can cause the battery to explode.
 - B. It can lead to a decrease in battery life.
 - C. It can cause warping of the plates inside the battery.
 - D. It can change the battery's color.

8. After replacing a battery in a popular European vehicle, what additional step should a technician perform?

- A. Charge the battery overnight.
- B. Register the new battery to the vehicle.
- C. Allow the vehicle to sit overnight with the headlights on.
- D. Clean the battery terminals.

9. Which of the following is a symptom of a defective battery?

- A. Slow cranking
- B. Excessive voltage
- C. Smooth, clean connectors
- D. Brighter headlights

10. When measuring the specific gravity of the electrolyte in a battery, what is the maximum allowable difference between the highest and lowest hydrometer reading?

- A. 0.010
- B. 0.020
- C. 0.050
- D. 0.100

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Chapter 48

Multiple Choice Quiz A

Answer Key

1. B

2. B

3. A

4. B

5. B

6. C

7. C

8. B

9. A

10. C