

Name: _____ Date: _____

1. What is a major disadvantage of using electric vehicles in cold weather?
 - A. Reduced battery efficiency.
 - B. Increased battery charging time.
 - C. Decreased vehicle speed.
 - D. Reduced tire traction.

2. What is the primary concern for electric vehicles in hot weather?
 - A. Overheating of the interior.
 - B. Reduced battery life due to high temperatures.
 - C. Increased energy consumption for air conditioning.
 - D. Both B and C.

3. What is the typical range for a modern electric vehicle on a full charge?
 - A. Less than 100 miles.
 - B. Approximately 150 miles.
 - C. In excess of 200 miles.
 - D. Over 300 miles.

4. Level 3 chargers use what type of connector?
 - A. SAE J1772
 - B. SAE Combo Charging System (CCS)
 - C. NEMA 14-50
 - D. NEMA 6-50

5. What is the primary function of Level 3 charging for electric vehicles?
 - A. Slow charging for overnight use.
 - B. Standard charging for daily use.
 - C. Rapid charging, often achieving 80% charge in 30 minutes.
 - D. Trickle charging to maintain battery life.

6. Charging at 7.2 kW rate is achieved using _____.
 - A. Level 1 charger
 - B. Level 2 charger
 - C. Level 3 charger
 - D. None of the above

7. What is the effect of driving style on the range of an electric vehicle?
 - A. No significant effect.
 - B. Increases range due to regenerative braking.
 - C. Can significantly reduce the range.
 - D. Only affects range in hybrid vehicles.

8. What is the main feature of destination charging for electric vehicles?
- A. Charging at high-speed stations.
 - B. Charging at home.
 - C. Charging at service stations.
 - D. Charging at locations like hotels or workplaces.
9. What is the typical energy consumption of a modern electric vehicle per 100 miles?
- A. About 10 kWh.
 - B. About 20 kWh.
 - C. About 30 kWh.
 - D. About 50 kWh.
10. What is the primary advantage of Level 2 charging stations for electric vehicles?
- A. They are widely available in public areas.
 - B. They offer rapid charging capabilities.
 - C. They are the most cost-effective charging option.
 - D. They provide additional features like authentication and integrated payment gateways.

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Chapter 90

Multiple Choice Quiz A

Answer Key

1. A

2. D

3. C

4. B

5. C

6. B

7. C

8. D

9. C

10. D