

Name: _____

Date: _____

1. What is the difference between a hybrid electric vehicle (HEV) and a plug-in hybrid vehicle (PHEV)?

- A. Battery size
- B. Charging capability
- C. Fuel efficiency
- D. Engine type

2. What precautions are needed when charging a vehicle using a Level 1 charging cable that comes with the vehicle?

- A. Ensuring proper grounding
- B. Using a dedicated circuit
- C. Monitoring the charging process
- D. All of the above

3. What are the voltage and amperage used to power a Level 2 charger at home?

- A. 110/120 volts and 16 amperes
- B. 208/240 volts and 32–40 amperes
- C. 440/480 volts and 24 kW
- D. None of the above

4. What are some of the smartphone apps that can be used to locate charging stations?

- A. Charge America
- B. PlugShare
- C. Charge USA
- D. Answers A and C

5. What factors affect the range of an electric vehicle?

- A. Battery energy storage capacity
- B. Vehicle weight
- C. Driving style
- D. All of the above

6. What is the typical range for a modern electric vehicle?

- A. Less than 100 miles
- B. About 200 miles
- C. More than 300 miles
- D. Over 400 miles

7. What is the capacity of an electric vehicle's battery pack usually measured in?

- A. Volts
- B. Ampere-hours
- C. Kilowatt-hours
- D. Watts

8. What is the primary concern for electric vehicles in a cold climate?
- A. Reduced battery efficiency
 - B. Battery overheating
 - C. Increased aerodynamic drag
 - D. Tire performance
9. What is the main disadvantage of electric vehicles in hot weather?
- A. Battery overheating
 - B. Increased air resistance
 - C. Reduced tire traction
 - D. Increased energy consumption for cooling
10. What is the purpose of time-of-use (TOU) electric rate plans for EV owners?
- A. To encourage daytime charging
 - B. To provide lower rates during off-peak hours
 - C. To limit the amount of electricity used
 - D. To increase the speed of charging

Automotive Technology 7th Edition

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Multiple Choice Quiz B

Answer Key

1. B

2. D

3. B

4. B

5. D

6. B

7. C

8. A

9. A

10. B