

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is a common issue caused by lack of proper maintenance that could lead customers to think the HV battery is failing?

- A. Noises
- B. Dim headlights
- C. Decreased fuel economy
- D. None of the above

2. Electric power steering systems typically operate at what voltage level?

- A. 12 volts
- B. 42 volts
- C. 60 volts
- D. Both A and B are correct

3. What precautions should be taken when servicing an electric air-conditioning compressor?

- A. Ensure the high-voltage system is depowered
- B. Use generic refrigerant oil
- C. Use a hand pump instead of a refrigerant recovery machine
- D. None of the above

4. What is the purpose of the high-voltage battery cabin filter?

- A. To prevent debris intrusion from the passenger compartment
- B. To regulate the battery temperature
- C. Both A and B
- D. Neither A nor B

5. Why is the eight-step diagnostic procedure used in diagnosing hybrid or electric vehicles?

- A. To avoid overlooking problems
- B. To ensure to utilize the expensive replacement parts
- C. To ensure customer always gets a bill
- D. All of the above

6. What is the purpose of the hybrid vehicle maintenance mode?

- A. To bypass the idle stop feature
- B. To service the base brake system
- C. To change the oil and filter
- D. To service the cooling system

7. Why do most hybrid vehicles use full synthetic engine oil?

- A. The engine stops and starts more frequently
- B. It reduces engine damage
- C. It improves fuel economy
- D. All of the above

8. Why do manufacturers recommend premixed coolant for hybrid/electric vehicle cooling systems?

- A. Minerals in tap water can cause corrosion
- B. Difficult to get the correct mixture ratio
- C. Both A and B
- D. Neither A nor B

9. What causes the base brake systems to require more frequent maintenance in the “salt belt” portion of the country?

- A. Salt causes brake pads to be cleaned
- B. Regenerative brakes increases heat, increasing moisture evaporation
- C. Corrosion causes brake pins and sliders to stick
- D. All of the above

10. What special procedures are needed when repairing a puncture on a noise-reducing tire?

- A. The tire cannot be repaired, only replaced
- B. Remove acoustical foam in the leak area before repair
- C. Reattach the acoustical foam after repair
- D. Both B and C are correct

Automotive Technology 7th Edition

Chapter 88

Multiple Choice Quiz B

Answer Key

1. C

2. D

3. A

4. C

5. A

6. A

7. D

8. C

9. C

10. D