

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 5A

NAME _____

1. If the auxiliary battery is located in the trunk, it will be a _____ type battery. 1. _____
 - A) flooded
 - B) AGM
 - C) screw cap
 - D) 4 cell

2. When changing the oil on a hybrid ICE with push-button start, the key fob should be _____. 2. _____
 - A) kept in the technicians pocket
 - B) located at least 5 feet away from the vehicle
 - C) placed on the vehicle roof
 - D) put at least 15 feet away from the vehicle

3. Technician A says that an AGM battery requires a special battery charger. Technician B says that a battery located in the trunk is normally an AGM battery. Which technician is correct? 3. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

4. Technician A says that using tires that are larger than factory tires will reduce fuel consumption. Technician B says that new tires may cause a drop in fuel economy. Which technician is correct? 4. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

5. What cautions should be observed when servicing an electric air-conditioning compressor? 5. _____
 - A) Make sure the high-voltage system has been properly depowered.
 - B) Make sure the proper refrigerant oil is used in the repair.
 - C) Use the appropriate refrigerant recovery machine.
 - D) All of the answers are correct.

6. Technician A says that DTCs should be cleared as one of the first steps in EV diagnosis. Technician B says that clearing DTCs comes toward the end of the diagnostic process. Which technician is correct? 6. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

7. Technician A says that the EV cooling system should be topped off with tap water. Technician B says that premixed coolant should only be used in the ICE cooling system. Which technician is correct? 7. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
8. When checking A/C system pressures, what should the technician do? 8. _____
- A) Park the vehicle in the sun.
 - B) Bypass the idle-stop feature.
 - C) Have the vehicle in key on-engine off mode.
 - D) None of these.
9. Why is the eight-step diagnostic procedure used when diagnosing a hybrid or electric vehicle? 9. _____
- A) To ensure a problem is not overlooked.
 - B) To ensure the vehicle is repaired as efficiently as possible.
 - C) To make sure the repair is properly documented.
 - D) All of the answers are correct.
10. The electrically driven A/C compressor uses _____ oil for lubrication. 10. _____
- A) mineral
 - B) PAG
 - C) POE
 - D) 0W-20

Answer Key

Testname: EV1_5A

1. B
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2. D
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3. C
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4. B
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