

*Electric and Hybrid Electric Vehicles, 1st Edition*

**Quiz 20B**

NAME \_\_\_\_\_

1. Which is true of high voltage battery electrolyte? 1. \_\_\_\_\_
  - A) It is flammable
  - B) It is explosive
  - C) It creates noxious fumes
  - D) None of these
  
2. The high-voltage will be shut off if the \_\_\_\_\_. 2. \_\_\_\_\_
  - A) ignition is turned off
  - B) air bags deploy
  - C) vehicle becomes submerged
  - D) Any of the above
  
3. If the 12 volt cables have been cut, what is the state of the high voltage system? 3. \_\_\_\_\_
  - A) The high voltage system is de-powered
  - B) High voltage remains in the orange high voltage cables
  - C) The high voltage battery pack goes dead
  - D) None of these
  
4. The 12 volt battery may be located where? 4. \_\_\_\_\_
  - A) Under the hood
  - B) Under the second-row seat
  - C) In the trunk
  - D) Either a or c
  
5. What color wires or cables represent a shock hazard? 5. \_\_\_\_\_
  - A) Yellow
  - B) Red or black
  - C) Orange
  - D) Blue
  
6. What is the pH of the electrolyte of a hybrid electric vehicle's NiMH battery? 6. \_\_\_\_\_
  - A) 13.5
  - B) 2.5
  - C) 7.0
  - D) 14.7
  
7. How would a first responder be able to identify an electric or hybrid electric vehicle? 7. \_\_\_\_\_
  - A) Emblems on the front, side, or rear of the vehicle
  - B) Orange-colored cables
  - C) Blue-colored cables
  - D) All of the above

8. What is the color of the cables for the 12 volt auxiliary battery? 8. \_\_\_\_\_
- A) Blue
  - B) Yellow
  - C) Red or black
  - D) Orange
9. How should airbags be addressed in an emergency rescue situation? 9. \_\_\_\_\_
- A) Use caution if the C-pillar need to be cut
  - B) Wait at least three minutes for the airbag backup power to discharge
  - C) Both a and b
  - D) Neither a nor b
10. A HEV has been involved in an accident and the driver is unconscious. The paramedics consult a technician for safety tips to extract the driver without electrocution. Technician A says that as long as the engine is not running there is no danger of electrical shock. Technician B says that if the ignition switch is in the off position, the high energy relays are not energized. Which technician is correct? 10. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

## Answer Key

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1. D  
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3. A  
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4. D  
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5. C  
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6. A  
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