

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Why does warm weather decrease the range of an electric vehicle? 1) \_\_\_\_\_
  - A) Batteries do not function well at high temperatures.
  - B) Batteries have to supply the power needed to keep the interior of the vehicle cool.
  - C) Batteries must supply power to help keep the batteries themselves cool.
  - D) All of the above
  
- 2) An electric vehicle has a battery capacity of 20 kWh. What is its estimated range? 2) \_\_\_\_\_
  - A) 20 miles
  - B) 8 miles
  - C) 12 miles
  - D) 80 miles
  
- 3) During the summer months the range of a Nissan Leaf is less than in the winter. What could be the problem? 3) \_\_\_\_\_
  - A) The hot road surfaces create more drag on the special tires.
  - B) Hot air is thicker than cold air, causing drag.
  - C) High temperatures increase the resistance of the charging cable.
  - D) This is a normal condition.
  
- 4) Research shows that owner's range anxiety fades after about \_\_\_\_\_ of driving. 4) \_\_\_\_\_
  - A) a year
  - B) two weeks
  - C) a few days
  - D) nine months
  
- 5) At what temperature range do batteries work best? 5) \_\_\_\_\_
  - A) 0°F to 32°F (-18°C to 0°C)
  - B) 35°F to 65°F (2°C to 18°C)
  - C) 68°F to 78°F (20°C to 26°C)
  - D) 90°F to 110°F (32°C to 43°C)
  
- 6) The standard charging station plug is usually what SAE standard? 6) \_\_\_\_\_
  - A) J1777
  - B) J1772
  - C) J1930
  - D) J1427
  
- 7) Electric vehicles each use a(n) \_\_\_\_\_ for the charge cable connection. 7) \_\_\_\_\_
  - A) unique connector plug
  - B) adapter, depending on the voltage
  - C) standard SAE plug-in connector
  - D) 90 volt transformer

- 8) Two technicians are discussing a plug-in hybrid vehicle. Technician A says that the plug-in version operates the same as the normal standard hybrid version. Technician B says that the plug-in hybrid uses a smaller, lighter battery pack. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) How can a plug-in electric hybrid vehicle be identified? 9) \_\_\_\_\_
- A) It has no spare tire.
  - B) It has two fuel doors, one for charging and one for gas.
  - C) By the type of headlight bulbs.
  - D) There will be a self-retracting charge cable.
- 10) Why must the charger cord be unreeled and laid out in a straight line when charging an EV or a PHEV? 10) \_\_\_\_\_
- A) To prevent heat buildup in the cable
  - B) To prevent electromagnetic interference
  - C) To allow the current to flow faster to the vehicle
  - D) All of the above

## Answer Key

Testname: AT6\_93A

1) D

Page Ref: 1069

2) D

Page Ref: 1069

3) D

Page Ref: 1069

4) B

Page Ref: 1069

5) C

Page Ref: 1069

6) B

Page Ref: 1070

7) C

Page Ref: 1070

8) A

Page Ref: 1068

9) B

Page Ref: 1067

10) A

Page Ref: 1070