

Name \_\_\_\_\_

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

- 1) Technician A says that a major limitation of electric vehicles is their short range. Technician B says that a major advantage of electric vehicles is their quiet operation. Which technician is correct? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 2) Which of these is NOT an advantage of a series hybrid design? 2) \_\_\_\_\_
  - A) Smaller internal combustion engine
  - B) A single-speed gearbox can be used
  - C) No transmission is necessary
  - D) All of these are advantages of the series hybrid design
  
- 3) Technician A says that a diesel hybrid is not possible. Technician B says that a diesel hybrid is possible but is not cost effective enough for production at this time. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) The GM EV-1 was what type of vehicle? 4) \_\_\_\_\_
  - A) Totally electric powered
  - B) The first generation hybrid-electric vehicle (HEV)
  - C) A series-type HEV
  - D) A parallel-type HEV
  
- 5) Which type of hybrid is capable of propelling the vehicle by just using the electric motor? 5) \_\_\_\_\_
  - A) BAS type
  - B) Strong (full) hybrid
  - C) Medium hybrid
  - D) Mild hybrid
  
- 6) All of the following are characteristic of a hybrid electric vehicle (HEV) EXCEPT \_\_\_\_\_. 6) \_\_\_\_\_
  - A) High voltages (safety issue)
  - B) Lower fuel economy
  - C) Lower amount of carbon dioxide released into the atmosphere
  - D) Quiet

- 7) Technician A says that in a parallel hybrid design, only the electric motor is connected to the transmission. Technician B says that in a parallel hybrid design, the vehicle can be propelled by the electric traction motor, the internal combustion engine, or both. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) Technician A says that most hybrids use the series hybrid design. Technician B says that some hybrids have 42 volt batteries. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) Which type of hybrid electric design costs the least? 9) \_\_\_\_\_
- A) Strong hybrid design
  - B) Series hybrid design
  - C) Parallel hybrid design
  - D) BAS design
- 10) Hybrid vehicles can operate in the HOV lane on the interstate in California \_\_\_\_\_. 10) \_\_\_\_\_
- A) Only with more than one occupant in the vehicle
  - B) Even if occupied by only the driver
  - C) Only between 6 and 8 AM
  - D) When using electric power only

## Answer Key

Testname: HYBRID4\_2B

1) C

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2) D

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3) B

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4) A

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5) B

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6) B

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7) B

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8) D

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9) D

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10) B

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