

Name \_\_\_\_\_

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

- 1) In a regenerative braking system, which part of the electric motor is being controlled by the computer? 1) \_\_\_\_\_
  - A) The rotor
  - B) The stator
  - C) Both the rotor and the stator
  - D) Neither the rotor nor the stator
  
- 2) A brushless motor works by \_\_\_\_\_. 2) \_\_\_\_\_
  - A) rapidly switching the polarity of the permanent magnet rotor
  - B) rapidly switching the stator field windings
  - C) Either of these
  - D) Neither of these
  
- 3) Regenerative braking uses the inertia of the vehicle to recapture energy during braking. Where is this recaptured energy stored? 3) \_\_\_\_\_
  - A) In the 12 volt battery bank
  - B) In the high voltage battery bank
  - C) In the electrohydraulic master cylinder
  - D) In large resistors
  
- 4) Which type of regenerative braking system uses an electrohydraulic system? 4) \_\_\_\_\_
  - A) Series
  - B) Parallel
  - C) Both Series and parallel
  - D) Neither series nor parallel
  
- 5) In a Toyota Prius regenerative braking system, how many pressure SWITCHES are used? 5) \_\_\_\_\_
  - A) One
  - B) Two
  - C) Three
  - D) Four
  
- 6) Some hybrid vehicles reduce the internal combustion engine's braking capacity during deceleration so that the regenerative braking is more efficient. This is done by \_\_\_\_\_. 6) \_\_\_\_\_
  - A) closing the valves in some cylinders
  - B) releasing compression in some cylinders
  - C) disabling the spark in some cylinders
  - D) None of these
  
- 7) Regenerative braking helps keep the HV battery charged to more than 90%. 7) \_\_\_\_\_
  - A) True
  - B) False

- 8) What position is the throttle pedal in during regenerative braking? 8) \_\_\_\_\_
- A) Fully lifted
  - B) About 10%
  - C) The throttle is ignored .
  - D) None of these
- 9) When the electric motor is acting as a generator. it produces alternating current (AC). This current is converted to direct current (DC) by use of \_\_\_\_\_. 9) \_\_\_\_\_
- A) large diodes
  - B) large capacity filters
  - C) special AC batteries
  - D) None of these
- 10) Inertia is \_\_\_\_\_. 10) \_\_\_\_\_
- A) the energy of any moving object that has mass (weight)
  - B) the force that the driver exerts on the brake pedal during a stop
  - C) the electric motor force that is applied to the drive wheels
  - D) the force that the internal combustion engine and the electric motor together apply to the drive wheels during rapid acceleration

## Answer Key

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1) B

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2) B

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3) B

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4) A

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5) B

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6) A

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7) B

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8) A

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9) A

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10) A

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