

**Chapter 14**

NAME \_\_\_\_\_

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

1. What component of the brake system handles regenerative brake operation?
  - A) The PCM
  - B) The ABS ECU
  - C) The regen module (RM)
  - D) None of these
  
2. What are the benefits of regenerative brakes?
  - A) Reduces the draw down of the battery charge.
  - B) Extends the overall life of the battery pack.
  - C) Reduces fuel consumption.
  - D) All of the above
  
3. Two technicians are discussing HV battery charge levels. Technician A says that the batteries are kept at a charge level of 90% at all times. Technician B says that the batteries have to be at 30% or less before regenerative braking will function. Who is correct?
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
4. When changing the brake pads on a \_\_\_\_\_, the vehicle must be put in "Pad Service Mode".
  - A) Chevy Bolt
  - B) Ford Escape
  - C) Toyota Prius
  - D) Tesla
  
5. The brake pedal position (BPP) sensor contains \_\_\_\_\_ and two Hall-effect elements.
  - A) slide contacts
  - B) two magnets
  - C) one magnet
  - D) micro switches
  
6. Kinetic energy is \_\_\_\_\_.
  - A) the energy that the driver exerts on the brake pedal
  - B) the energy needed from the batteries to propel a vehicle
  - C) the energy in any moving object
  - D) the energy that the motor produces to propel the vehicle
  
7. One pedal system means \_\_\_\_\_.
  - A) the vehicle is not equipped with a separate brake pedal
  - B) the accelerator pedal is used to accelerate and decelerate the vehicle
  - C) the vehicle uses regenerative brakes only and not friction brakes
  - D) the vehicle does not use regenerative braking

8. The energy reclaimed during regenerative braking depends on all of these factors EXCEPT \_\_\_\_\_.
- A) vehicle weight
  - B) vehicle speed
  - C) FWD or RWD
  - D) rate of deceleration
9. Technician A says that a front wheel drive hybrid electric vehicle can only generate electricity during braking from the front wheel motor(s). Technician B says that antilock braking (ABS) is not possible with a vehicle equipped with a regenerative braking system. Who is correct?
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
10. The coils of an electric motor are located in the \_\_\_\_\_.
- A) rotor
  - B) brushes
  - C) magnets
  - D) stator

## Answer Key

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1. B  
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2. D  
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3. D  
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4. B  
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5. B  
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6. C  
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7. B  
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8. C  
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9. A  
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