

Chapter 14

NAME _____

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

1. The coils of an electric motor are located in the _____.
 - A) rotor
 - B) brushes
 - C) magnets
 - D) stator

2. The _____ is the moving part of an electric motor.
 - A) stator
 - B) winding
 - C) rotor
 - D) brush

3. Inertia is _____.
 - 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

4. In a regenerative braking system, which part of the electric motor is being controlled by the computer?
 - A) The rotor
 - B) The stator
 - C) Both the rotor and the stator
 - D) Neither the rotor nor the stator

5. During braking on a hybrid electric vehicle equipped with a regenerative braking system, what occurs when the driver depresses the brake pedal?
 - A) The friction brakes are only used as a backup and not used during normal braking.
 - B) The motors become generators.
 - C) The driver needs to apply a braking lever instead of depressing the brake pedal to energize the regenerative braking system.
 - D) The batteries are charged to 100 percent SOC.

6. Two technicians are discussing deceleration rates. Technician A says that a one "g" stop is a gentle slowing of the vehicle. Technician B says that a stopping rate of 8 ft/sec^2 is a severe stop. Who is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

7. 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
8. 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
9. Which of these two is the more efficient type of regenerative braking?
- A) Series regeneration
 - B) Parallel regeneration
 - C) Both types are equally efficient
 - D) A third type, not mentioned, is the most efficient
10. Two technicians are discussing deceleration rates. Technician A says that a one "g" stop is a gentle slowing of the vehicle. Technician B says that a stopping rate of 8 ft/sec² is a severe stop. Who is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

Testname: EV1_14B

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