

Name \_\_\_\_\_

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

- 1) If the steering column of an electric power steering system vehicle is replaced, what may have to be recalibrated by the electric power steering control module? 1) \_\_\_\_\_
  - A) Lock-to-lock distance
  - B) Vehicle toe-in
  - C) Torque sensor zero
  - D) Turn signal cancel trigger
  
- 2) At highway speeds, the EPS system will provide \_\_\_\_\_ steering assist. 2) \_\_\_\_\_
  - A) additional
  - B) more
  - C) less
  - D) no
  
- 3) The EPS control unit will vary the \_\_\_\_\_ to the EPS motor, depending on sensor inputs. 3) \_\_\_\_\_
  - A) RPM
  - B) voltage
  - C) pressure
  - D) amperage
  
- 4) The advantages of electric power steering compared to hydraulic power steering include \_\_\_\_\_. 4) \_\_\_\_\_
  - A) less weight
  - B) improved fuel economy
  - C) increased usable engine power
  - D) All of the above
  
- 5) What diagnostic equipment is usually needed to diagnose faults or relearn the electric power steering system? 5) \_\_\_\_\_
  - A) Special electronic diagnostic equipment designed to test each specific system
  - B) Factory or factory-level scan tool
  - C) A breakout box
  - D) A 12-volt test light
  
- 6) Two technicians are discussing electric power steering (EPS) systems. Technician A says that some systems operate on 12 volts. Technician B says that some systems operate on 42 volts, such as on some hybrid electric vehicles. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

- 7) Which of these must be serviced together, as a unit? 7) \_\_\_\_\_
- A) Steering wheel and air bag
  - B) Steering torque and position sensors
  - C) Steering warning lamp and PSCM
  - D) All of these can be serviced individually.
- 8) The steering shaft torque sensor uses \_\_\_\_\_ as inputs to the EPS control module. 8) \_\_\_\_\_
- A) calibrated springs
  - B) vacuum pulses
  - C) viscous resistances
  - D) voltage signals
- 9) What type of diagnostic trouble codes will be set when an EPS system fault is detected? 9) \_\_\_\_\_
- A) Type A code
  - B) Type B code
  - C) Type C code
  - D) Type D code
- 10) The steering torque sensor in an electric power steering system senses \_\_\_\_\_. 10) \_\_\_\_\_
- A) steering wheel torque
  - B) steering wheel direction
  - C) Both A and B
  - D) Neither A nor B

## Answer Key

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- 1) C  
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- 2) C  
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- 3) D  
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- 4) D  
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- 5) B  
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- 6) C  
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- 7) B  
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- 8) D  
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- 9) C  
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- 10) C  
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