

Name _____

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

- 1) Self-park systems use what sensors and EPS to achieve the parking maneuver? 1) _____
 - A) Wheel speed sensors (WSS)
 - B) Steering wheel position sensor
 - C) Ultrasonic sensors
 - D) All of the above

- 2) The electro-hydraulic power steering pump provides hydraulic power to the steering gear and _____ 2) _____
 - A) brake booster
 - B) valve lifters
 - C) cooling fan clutch
 - D) hydraulic level control system

- 3) The power steering control module will enter a self protection mode in the case of a(n) _____ condition. 3) _____
 - A) high temperature
 - B) strong cross-wind
 - C) low tire pressure
 - D) icing

- 4) The steering shaft torque sensor uses _____ as inputs to the EPS control module 4) _____
 - A) calibrated springs
 - B) vacuum pulses
 - C) viscous resistances
 - D) voltage signals

- 5) What is the relationship between the power steering control module (PSCM) and the powertrain control module (PCM)? 5) _____
 - A) Usually wired between the two
 - B) No connection between the two
 - C) Uses serial data lines between the two modules
 - D) Mounted together on the electric power steering (EPS) motor

- 6) On a vehicle with a self-parking feature, what sensor is added to the normal electric power steering sensors that allows self-parking? 6) _____
 - A) A parking angle sensor
 - B) Cameras
 - C) Curb contact sensors
 - D) Corner weight sensors

- 7) What diagnostic equipment is usually needed to diagnose faults or relearn the electric power steering system? 7) _____
- A) Special electronic diagnostic equipment designed to test each specific system
 - B) Factory of factory-level scan tool
 - C) A breakout box
 - D) A 12-volt test light
- 8) A typical electric motor used in electric power steering systems produces about how much power? 8) _____
- A) 1/4 horsepower
 - B) 1/2 horsepower
 - C) 3/4 horsepower
 - D) 1 horsepower
- 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) 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? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician