Automotive Technology 7th Edition
Chapter 118
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary communication protocol used by the electrohydraulic power steering (EHPS) module?
A. Controller Area Network (CAN)
B. Local Interconnect Network (LIN)
C. FlexRay
D. Class 2

2. What is the nominal power supply voltage for the EHPS module in the Chevrolet Silverado mild hybrid truck?
A. 12 volts
B. 24 volts
C. 36 volts
D. 48 volts

3. What is the function of the power steering control module (PSCM) in electric power steering systems?
A. To control the hydraulic pump
B. To provide hydraulic power to the brake booster
C. To determine steering direction and amount of assist
D. To monitor the fluid level in the reservoir

4. What type of sensor is used to detect the direction the steering wheel is being rotated?
A. Gyroscope sensor
B. Steering shaft torque sensor
C. Wheel speed sensor
D. Accelerometer

5. What happens to the voltage signals from the steering shaft torque sensor when torque is applied during a right turn?
A. Both signals increase
B. Both signals decrease
C. Signal 1 increases, Signal 2 decreases
D. Signal 1 decreases, Signal 2 increases

6. What is the purpose of the steering position sensor (SPS)?
A. To determine the steering system on-center position
B. To measure the speed of the steering wheel rotation
C. To control the power steering motor
D. To detect the level of power steering fluid

7. What is the consequence of a blown fuse in the EHPS system?
A. The system operates at reduced efficiency
B. The system will not operate and communication codes will be set
C. The fluid level sensor will malfunction
D. The steering wheel will lock

8. Which of the following components is NOT part of the EHPS power pack?
A. Electric motor
B. Hydraulic pump
C. Torque sensor
D. Fluid reservoir

9. What is indicated by a steering wheel that is harder to turn after the battery was jump-started incorrectly?
A. The steering shaft is damaged
B. The power steering fluid is contaminated
C. A fuse controlling the electric power steering may have blown
D. The steering wheel position sensor has failed

10. What is the typical electrical range of motion for the brake pedal position (BPP) sensor?
A. −55 degrees to +25 degrees
B. −70 degrees to +40 degrees
C. 0 degrees to +30 degrees
D. −30 degrees to +55 degrees

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Answer Key

1. D

2. C

3. C

4. B

5. C

6. A

7. B

8. C

9. C

10. A