Automotive Technology 7th Edition
Chapter 107
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary function of the Electronic Stability Control (ESC) system?
A. To increase vehicle speed
B. To maintain vehicle stability by applying and adjusting individual wheel brakes
C. To signal the driver when to apply brakes
D. To control the vehicle's audio system

2. Which sensor is NOT used by the Electronic Brake Control Module (EBCM) to help control the suspension system?
A. Lateral acceleration sensor
B. Steering wheel position sensor
C. Engine coolant temperature (ECT) sensor
D. Yaw rate sensor

3. What is the purpose of the steering wheel position sensor in ESC systems?
A. To determine the vehicle's speed
B. To provide the driver’s intended direction
C. To measure the vehicle's weight
D. To control the vehicle's headlights

4. The "sine with dwell" (SWD) test is used to determine if:
A. The vehicle's audio system is functioning properly
B. An electronic stability control system functions correctly
C. The vehicle's battery has enough charge
D. The air conditioning system is operational

5. What does the ESC malfunction telltale light do when the system is operating to restore vehicle stability?
A. It remains off
B. It turns green
C. It flashes
D. It stays on continuously

6. Under which condition might a driver want to disengage the ESC system?
A. When driving on a racetrack for maximum performance
B. During heavy traffic on highways
C. When the vehicle is parked
D. While driving in urban areas

7. What is the Federal Motor Vehicle Safety Standard (FMVSS) No. 126 concerning?
A. Fuel economy standards
B. Electronic Stability Control Systems
C. Vehicle paint durability
D. Tire tread depth regulations

8. By what model year did FMVSS No. 126 require all vehicles to be equipped with an ESC system?
A. 2010
B. 2011
C. 2012
D. 2013

9. What is required for the ESC system to function according to FMVSS No. 126?
A. A two-channel antilock brake system (ABS)
B. A four-channel antilock brake system (ABS)
C. Manual brake system
D. Drum brake system

10. What action does the traction control system perform to maintain control?
A. Increases engine power
B. Disengages the clutch
C. Applies the wheel brake to the wheel that is losing traction
D. Inflates the tires

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Answer Key

1. B

2. C

3. B

4. B

5. C

6. A

7. B

8. C

9. B

10. C