

Name _____

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

- 1) Traction control uses the antilock braking system and other devices to limit _____ of the drive wheel during acceleration. 1) _____
 - A) positive slip
 - B) negative slip
 - C) side slip
 - D) none of these

- 2) Which sensor is used by the ESC controller to determine the driver's intended direction? 2) _____
 - A) Yaw sensor
 - B) Steering wheel (handwheel) position sensor
 - C) Vehicle speed (VS) sensor
 - D) Lateral acceleration sensor

- 3) During a traction control event, which of the following strategies is usually applied first? 3) _____
 - A) Reduce engine torque
 - B) Apply the drive wheel brakes
 - C) Either A or B depending on conditions
 - D) Neither A nor B

- 4) If a vehicle tends to continue straight ahead while cornering, the condition may be called _____. 4) _____
 - A) understeer
 - B) plowing
 - C) tight
 - D) any of the above

- 5) A lateral acceleration sensor is usually located where in the vehicle? 5) _____
 - A) Under the front seat
 - B) In the center console
 - C) On the package shelf
 - D) Any of the above locations

- 6) A flashing ESC lamp indicates a problem with the ESC system. 6) _____
 - A) True
 - B) False

- 7) Some antilock braking systems use a yaw sensor for the ESC system. Where could this sensor be mounted? 7) _____
 - A) In the front of the vehicle near the radiator
 - B) Attached to or near the brake pedal assembly
 - C) On the master cylinder
 - D) Inside the vehicle under a seat

- 8) A traction control system can often control all of these EXCEPT _____. 8) _____
- A) limit torque delivered to the drive wheels
 - B) engage four-wheel drive
 - C) upshift the transmission
 - D) apply the wheel brake to the wheel that is losing traction
- 9) Technician A says that some vehicles with the Stabilitrak system continuously monitor wheel speed conditions and modulate hydraulic force to individual wheels to maintain stability. Technician B says that vehicles using traction control systems can reduce engine torque in slippery driving conditions. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) A diagnostic trouble code (DTC) has been set for a fault with the lateral acceleration sensor or circuit. What test could be performed to check if the sensor is working? 10) _____
- A) Unplug it and see if the scan tool reads 1.0 G.
 - B) Disconnect the sensor and hold it sideways to see if the scan tool reads 0.0 G.
 - C) Disconnect the sensor and hold it sideways to see if the scan tool reads 1.0 G.
 - D) Drive the vehicle in a circle to see if the scan tool reads 0.0 G.

Answer Key

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1) A

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2) B

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3) A

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4) D

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5) D

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6) B

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7) D

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8) B

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9) C

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10) C

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