

Name _____

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

- 1) The standard ABS control strategy uses a three step cycle. These are _____. 1) _____
 - A) pressure hold, pressure release, and pressure increase
 - B) slipping, holding, and increasing
 - C) ABS on, ABS off, and ABS hunting
 - D) pressure maintain, pressure hold, and pressure accumulate

- 2) Technician A says that some ABS wheel speed sensors are used as part of the tire pressure monitoring system (TPMS). Technician B says that the ABS is used as part of the hill assist system. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) Which antilock component creates a AC signal with a frequency that changes with wheel rotational speed? 3) _____
 - A) Electronic control unit
 - B) Wheel speed sensors
 - C) Modulator assembly
 - D) Safety circuitry

- 4) Two technicians are discussing ABS wheel speed sensors. Technician A says that some ABS systems use a sensor located in the rear-axle pinion gear area. Technician B says that all ABS systems use a wheel speed sensor at each wheel. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 5) A technician is trying to identify which type of antilock system is installed on a vehicle. A speed sensor is attached to the rear differential housing. Which type of system could this be? 5) _____
 - A) Five-channel ABS
 - B) Four-channel ABS
 - C) Three-channel ABS
 - D) Two-channel ABS

- 6) An active wheel speed sensor is also referred to as a _____ sensor. 6) _____
 - A) variable reluctance (VR)
 - B) Hall-effect
 - C) magneto resistive (MR)
 - D) either A or B

- 7) Magnetic wheel speed sensors are being discussed. Technician A says that the wheel speed sensors are magnetic. Technician B says that the toothed sensor ring is magnetic. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) The maximum traction between a tire and the road occurs when the tire is _____. 8) _____
- A) locked and skidding
 - B) rotating freely
 - C) slipping 15% to 25%
 - D) slipping 80% to 90%
- 9) Which of the following is NOT a function of an antilock brake system (ABS)? 9) _____
- A) Helps maintain vehicle control while braking
 - B) Allows drivers to drive more closely to the vehicle in front
 - C) Maintain directional stability on slippery surfaces
 - D) Allow elimination of the proportioning valve
- 10) Which of these is NOT an additional function of the ABS module? 10) _____
- A) Hill start assist
 - B) Automatic braking
 - C) Electric steering assist
 - D) Electronic proportioning

Answer Key

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