

Name _____

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

- 1) 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? 1) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 2) The standard ABS control strategy uses a three-step cycle. These are _____. 2) _____
- 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
- 3) An active wheel speed sensor is also referred to as a _____ sensor. 3) _____
- A) variable reluctance (VR)
 - B) Hall-effect
 - C) magneto resistive (MR)
 - D) Either A or B
- 4) A customer wanted the ABS checked because of tire chirp noise during hard braking. Technician A says that the speed sensors may be defective. Technician B says that tire chirp is normal during an ABS stop on dry pavement. Which technician is correct? 4) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 5) Technician A says that ABS-equipped vehicles can stop quickly and without skidding on all road surfaces even if covered with ice. Technician B says that steering is possible during an ABS stop. Which technician is correct? 5) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 6) Which of these is NOT an additional function of the ABS module? 6) _____
- A) Hill start assist
 - B) Automatic braking
 - C) Electric steering assist
 - D) Electronic proportioning

- 7) Antilock brakes cannot defy the laws of physics under what conditions? 7) _____
- A) When a vehicle enters a corner traveling faster than it is physically possible to negotiate the turn
 - B) If the brakes are applied too late to bring the vehicle to a complete stop before impact
 - C) Being able to stop the vehicle in a short distance under all conditions
 - D) All of the above
- 8) 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? 8) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 9) Technician A says digital wheel speed sensors produce a variable frequency AC voltage. Technician B says digital wheel speed sensors use a DC reference voltage supply and produce a square wave signal. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 10) Technician A says an antilock brake system (ABS) decreases pressure to the hydraulic brake circuits on wheels with excessive wheel slippage during deceleration. Technician B says a traction control system can control wheel spin on wheels with excessive wheel slippage during acceleration. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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