

Name \_\_\_\_\_

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

- 1) A quick diagnostic test of wheel speed sensors (WSS) on some Bosch ABS systems is to hoist the vehicle and spin each tire individually. If the WSS is working properly, \_\_\_\_\_ 1) \_\_\_\_\_
  - A) the amber ABS warning light should illuminate
  - B) the red brake warning light should illuminate
  - C) Both A and B are correct.
  - D) Neither A nor B is correct.
  
- 2) Most passive wheel speed sensors should measure how much resistance? 2) \_\_\_\_\_
  - A) 800 to 2,500 ohms
  - B) 100 to 300 ohms
  - C) 1 to 3 ohms
  - D) 0.1 to 1 ohm
  
- 3) Technician A says that using the space-saving small spare tire may trigger an ABS amber warning lamp. Technician B says that if the red brake warning light is on, the vehicle should not be test driven. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 4) Technician A says that with some early antilock braking systems, there is no trouble code memory. Technician B says that older antilock braking systems require that a terminal be grounded to cause the amber ABS warning lamp to flash diagnostic trouble codes. 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 interference from an amateur radio antenna may the disrupt the ABS control unit. Technician B says that mismatched tires will cause wheel speed sensor errors. 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) What type of scan tool is needed to retrieve data from the antilock brake system (ABS)? 6) \_\_\_\_\_
  - A) Factory scan tool
  - B) Enhanced factory-level scan tool
  - C) Code reader
  - D) Either A or B

- 7) A passive-type wheel speed sensor (WSS) is being checked for the proper resistance, which should be 800-2,500 ohms. The meter reads 1.1 k $\Omega$ .. This means \_\_\_\_\_. 7) \_\_\_\_\_
- A) the sensor has a normal resistance reading
  - B) the sensor is electrically shorted
  - C) the sensor is electrically open
  - D) the sensor is grounded
- 8) When bleeding the brakes on an ABS-equipped vehicle, a scan tool may be required to \_\_\_\_\_. 8) \_\_\_\_\_
- A) set ABS codes
  - B) cycle the ABS solenoid valves
  - C) spin the wheel speed sensors
  - D) lock the wheel speed sensors
- 9) What safety precautions should be adhered to when working on or around a vehicle equipped with ABS? 9) \_\_\_\_\_
- A) Avoid mounting any antenna near the ABS control unit
  - B) Never open a bleeder valve or a hydraulic line while the ABS is energized
  - C) Do not pry against or on a wheel speed sensor
  - D) All of the above
- 10) A passive wheel speed sensor is producing lower than expected voltage as the wheel rotates. Which of these is NOT a possible cause? 10) \_\_\_\_\_
- A) Debris on the sensor
  - B) Incorrect air gap between the sensor and toothed ring
  - C) Damaged or corroded electrical connector
  - D) Failed ABS control module

## Answer Key

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- 1) A  
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- 2) A  
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- 3) C  
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- 4) C  
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- 5) C  
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- 6) D  
Page Ref: 306
- 7) A  
Page Ref: 309
- 8) B  
Page Ref: 312
- 9) D  
Page Ref: 313
- 10) D  
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