

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 \_\_\_\_\_.
- A) The red brake warning light should illuminate  
B) The amber ABS warning light should illuminate  
C) Both A and B are correct  
D) Neither A nor B is correct
- 1) \_\_\_\_\_
- 2) Technician A says that using the space saving small spare tire may trigger an ABS amber warning lamp. Technician B says the use of the small spare tire may trigger the red brake warning lamp. Which technician is correct?
- A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 2) \_\_\_\_\_
- 3) A cracked tone (reluctor) ring will often cause what type of problem?
- A) The affected wheel brake will be applied all of the time  
B) The antilock brake system will be disabled and the amber ABS warning lamp will be on  
C) A brake failure which will turn on the red brake warning light  
D) False ABS actuation at low speed
- 3) \_\_\_\_\_
- 4) Technician A says that the ABS electrohydraulic unit can be bled using bleeder screws and the manual method. Technician B says that a scan tool is often required to bleed the ABS electrohydraulic unit. Which technician is correct?
- A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 4) \_\_\_\_\_
- 5) A wheel speed sensor is being checked using an oscilloscope. The pattern shows a fluctuating voltage level as the wheel is turned. What does this mean?
- A) The wheel needs to be balanced  
B) The oscilloscope is incorrectly attached  
C) A loose electrical connector  
D) A bent axle or hub
- 5) \_\_\_\_\_
- 6) Technician A says that a noise or vibration may be sensed by the driver when the ABS performs a self test. Technician B says that the ABS fuse may have to be removed to erase some ABS diagnostic codes if a scan tool is not used. Which technician is correct?
- A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 6) \_\_\_\_\_
- 7) When observing WSS output with an oscilloscope, most sensors should produce \_\_\_\_\_.
- A) An AC sine wave that increases in amplitude as wheel speed increases  
B) An AC sine wave that increases in frequency as wheel speed increases  
C) Both A and B are correct  
D) Neither A nor B is correct
- 7) \_\_\_\_\_
- 8) What reference voltage (supply voltage) is used with digital wheel speed sensors?
- A) 5 volts DC  
B) 12 volts AC  
C) 12 volts DC  
D) None of these
- 8) \_\_\_\_\_

9) Before replacing a diagnosed faulty EBCM, the technician should do which of these?

9) \_\_\_\_\_

- A) Replace the wheel speed sensors
- B) Charge the vehicle battery
- C) Lock the brake pedal down
- D) Check the EBCM power and ground connections

10) A good wheel speed sensor should produce at least \_\_\_\_\_ with the wheel turning.

10) \_\_\_\_\_

- A) 1 volt DC
- B) 0.1 volt AC
- C) 1 volt AC
- D) 0.1 volt DC