

Name \_\_\_\_\_

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

- 1) A passive wheel speed sensor is producing lower than expected voltage as the wheel rotates. 1) \_\_\_\_\_  
Which of these is NOT a possible cause?
  - 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
  
- 2) 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 2) \_\_\_\_\_
  - 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
  
- 3) The red brake warning lamp is on and the amber ABS lamp is off. Technician A says that a fault is possible in the base brake system. Technician B says that the red brake warning lamp can be turned on by a low brake fluid level in the master cylinder. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) Technician A says that a scan tool is required to retrieve data and diagnostic trouble codes from most antilock braking systems. Technician B says that a jumper wire can be used to retrieve diagnostic codes on some early antilock braking systems. Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) When observing WSS output with an oscilloscope, most sensors should produce \_\_\_\_\_. 5) \_\_\_\_\_
  - 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.
  
- 6) Two technicians are discussing passive-type wheel speed sensors. Technician A says that wheel speed sensors are magnetic. Technician B says that the toothed sensor ring is magnetic. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 7) The ABS computer uses what signal characteristic from a wheel speed sensor? 7) \_\_\_\_\_
- A) Voltage
  - B) Frequency
  - C) Resistance
  - D) Electromagnetic
- 8) Technician A says that the test drive is an important diagnostic step to verify customer ABS concerns. Technician B says that if the red brake warning light is on, the conventional brake system should be repaired first, before driving. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) A cracked tone (reluctor) ring will often cause what type of problem? 9) \_\_\_\_\_
- A) The antilock brake system will be disabled and the amber ABS warning lamp will be on
  - B) False ABS activation at low speed
  - C) A brake failure which will turn on the red brake warning light
  - D) The affected wheel brake will be applied all of the time
- 10) A good wheel speed sensor should produce at least \_\_\_\_\_ with the wheel turning. 10) \_\_\_\_\_
- A) 0.1 volt AC
  - B) 1 volt DC
  - C) 0.1 volt DC
  - D) 1 volt AC

## Answer Key

Testname: AT6\_111B

1) D

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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) A

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7) B

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8) C

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9) B

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10) A

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