

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. Which of these is NOT a possible cause? 1) _____
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 Ω . 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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