Automotive Technology 6th Edition
Quiz 111A

Name_____

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

1) When observing WSS output with an oscilloscope, most sensors should produce _____. 1) _____
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.

2) 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? 2) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

3) The ABS computer uses what signal characteristic from a wheel speed sensor? 3) _____
A) Voltage
B) Frequency
C) Resistance
D) Electromagnetic

4) A cracked tone (reluctor) ring will often cause what type of problem? 4) _____
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

5) 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? 5) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

6) Most wheel speed sensors should measure how much resistance? 6) _____
A) 800 to 2,500 ohms
B) 100 to 300 ohms
C) 1 to 3 ohms
D) 0.1 to 1 ohm

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 kΩ. 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) 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? 8) _____

A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

9) What reference voltage (supply voltage) is used with digital wheel speed sensors? 9) _____

A) 12 volts DC
B) 12 volts AC
C) 5 volts DC
D) None of these

10) Technician A says that a breakout box is often required to diagnose an antilock braking system. Technician B says that a breakout box requires to use of a digital multimeter. Which technician is correct? 10) _____

A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician

Answer Key
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1) C
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2) A
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3) B
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4) B
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5) C
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6) A
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7) A
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8) C
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9) A
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10) C
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