

Name _____

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

- 1) Technician A says that wheel speed sensors are magnetic. Technician B says that the toothed sensor ring is magnetic. Which technician is correct? 1) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) An active wheel speed sensor is also referred to as _____. 2) _____
 - A) Variable reluctance (VR)
 - B) Hall-effect
 - C) Magneto-resistive (MR)
 - D) Either B or C

- 3) Technician A says an antilock brake system will always produce the shortest possible stops. Technician B says when braking on loose gravel or dirt, a system that can lock the wheels can produce shorter stops than an antilock system. Which technician is correct? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) As the speed of the wheel speed sensor signal increases, so does its frequency. 4) _____
 - A) True
 - B) False

- 5) The ABS control module uses the _____ signal from a wheel speed sensor. 5) _____
 - A) Voltage
 - B) Frequency
 - C) Resistance
 - D) Electromagnetic

- 6) The three phases of ABS operation are pressure _____. 6) _____
 - A) Hold, release, increase
 - B) Release, hold, reverse
 - C) Hold, clamp, revise
 - D) Release, hold, insulate

- 7) The maximum traction between a tire and the road occurs when the tire is _____. 7) _____
 - A) Locked and skidding
 - B) Rotating freely
 - C) Slipping 10 to 20 percent
 - D) Slipping 80 to 90 percent

8) Which antilock component creates current frequencies that change with wheel rotational speed? 8) _____
A) Electronic control unit
B) Wheel speed sensors
C) Modulator assembly
D) Safety circuitry

9) A vehicle ABS may also include which of these additional functions? 9) _____
A) Tire pressure control system
B) Hill start assist
C) Excessive speed detection
D) Vehicle rolling enhancement (VRE)

10) A passive wheel speed sensor is also referred as _____. 10) _____
A) Variable reluctance (VR)
B) Hall-effect
C) Magneto-resistive (MR)
D) Either A or B

Answer Key

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1) A

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2) D

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3) B

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4) A

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5) B

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6) A

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7) C

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8) B

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9) B

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10) A

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