

Name \_\_\_\_\_

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

- 1) The maximum traction between a tire and the road occurs when the tire is \_\_\_\_\_. 1) \_\_\_\_\_
  - A) locked and skidding
  - B) rotating freely
  - C) slipping 15% to 25%
  - D) slipping 80% to 90%
  
- 2) Which of the following is NOT a function of an antilock brake system (ABS)? 2) \_\_\_\_\_
  - A) Helps maintain vehicle control while braking
  - B) Allows drivers to drive more closely to the vehicle in front
  - C) Maintain directional stability on slippery surfaces
  - D) Allow elimination of the proportioning valve
  
- 3) Technician A says that some ABS wheel speed sensors are used as part of the tire pressure monitoring system (TPMS). Technician B says that the ABS is used as part of the hill assist system. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) Technician A says that most ABS units are non-integral. Technician B says that some ABS wheel speed sensors do not produce a useable signal below about 2 mph (3 km/h). Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 5) Which of the following components is common to all vehicles equipped with ABS? 5) \_\_\_\_\_
  - A) Pedal travel sensor
  - B) Combination valve assembly
  - C) Pressure relief valves
  - D) Hydraulic control unit
  
- 6) Technician A says digital wheel speed sensors produce a variable frequency AC voltage. Technician B says digital wheel speed sensors use a DC reference voltage supply and produce a square wave signal. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

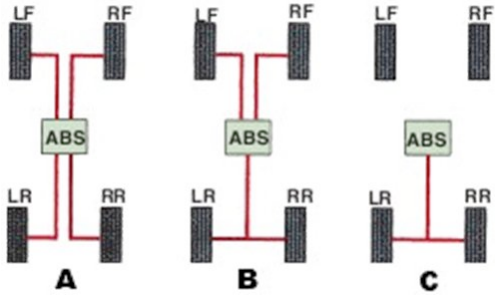
7) Which of these is NOT an additional function of the ABS module?

7) \_\_\_\_\_

- A) Hill start assist
- B) Automatic braking
- C) Electric steering assist
- D) Electronic proportioning

8) Which of these is a 3 channel antilock brake system?

8) \_\_\_\_\_



- A) A
- B) B
- C) C
- D) All of these are 4 channel systems

9) A technician is trying to identify which type of antilock system is installed on a vehicle. A speed sensor is attached to the rear differential housing. Which type of system could this be?

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

- A) Five-channel ABS
- B) Four-channel ABS
- C) Three-channel ABS
- D) Two-channel ABS

10) Technician A says an antilock system that operates on the select-low principle will control each rear wheel individually. Technician B says systems using the select-low principle regulates rear wheel brake pressure to both rear wheel simultaneously. 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) B

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3) C

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4) C

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5) D

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6) B

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7) A

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8) B

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9) C

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10) B

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