

Name \_\_\_\_\_

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

- 1) An engine-related vibration can be best detected by performing a \_\_\_\_\_. 1) \_\_\_\_\_
  - A) neutral run-up test
  - B) test drive on a rough road
  - C) hard acceleration from a stop
  - D) Any of the above
  
- 2) Rubber is used for the exhaust system hangers because the exhaust system gets longer as it gets hot and rubber helps isolate noise and vibration from the passenger compartment. 2) \_\_\_\_\_
  - A) True
  - B) False
  
- 3) Wheel and tire imbalance is the most common source of vibrations that occur in what frequency range? 3) \_\_\_\_\_
  - A) 5–20 Hz
  - B) 20–50 Hz
  - C) 50–100 Hz
  - D) 100–150 Hz
  
- 4) Technician A says that a vibration in the steering wheel when braking is an indication that the front tires need service. Technician B says that a vibration in the steering wheel when braking is an indication that the front brake rotors need service. Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 5) The rolling circumference of both tires on the same axle of a four-wheel drive vehicle should be within \_\_\_\_\_. 5) \_\_\_\_\_
  - A) 0.1 in. (2.5 mm)
  - B) 0.3 in. (7.6 mm)
  - C) 0.6 in. (15 mm)
  - D) 1.2 in. (30 mm)
  
- 6) Technician A says that low frequency vibrations are often not noticed by vehicle occupants. Technician B says that order is defined as the number of vibrations created in one revolution of a component. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

- 7) Driveshaft vibrations may be corrected by using \_\_\_\_\_ to balance the shaft. 7) \_\_\_\_\_
- A) clip-on wheel balancing weights
  - B) hose clamps
  - C) balancing fluid
  - D) stick-on wheel balancing weights
- 8) A vibration or noise can be caused by all of the following EXCEPT \_\_\_\_\_. 8) \_\_\_\_\_
- A) exhaust system
  - B) wheels and tires
  - C) incorrect driveshaft angles
  - D) exhaust smoke
- 9) Technician A says to inspect a suspicious exhaust system when it is warm. Technician B says that dampeners are used with many exhaust systems to reduce vibration. Which technician is correct? 9) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
- 10) What does NVH stand for? 10) \_\_\_\_\_
- A) Noise, vibration, and harshness
  - B) Normal vibration harmonics
  - C) Net value of harshness
  - D) None of these

## Answer Key

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1) A

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2) A

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3) A

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4) B

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5) C

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6) B

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7) B

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8) D

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9) C

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10) A

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