

Name \_\_\_\_\_

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

- 1) What is the first step in diagnosing a noise or vibration complaint? 1) \_\_\_\_\_
  - A) Test drive to verify the concern
  - B) Visual inspection of likely worn parts
  - C) Jounce test
  - D) None of these
  
- 2) What term describes an oscillating motion around a reference position? 2) \_\_\_\_\_
  - A) Vibration
  - B) Wind up
  - C) Slippage
  - D) None of these
  
- 3) The maximum allowable drive shaft runout is \_\_\_\_\_. 3) \_\_\_\_\_
  - A) 0.030 in. (0.8 mm)
  - B) 0.10 in. (2.5 mm)
  - C) 0.50 in. (13 mm)
  - D) 0.015 in. (0.4 mm)
  
- 4) Technician A says that a vibration in the steering wheel when braking is an indication that 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
  - D) Neither technician
  
- 5) MacPherson strut systems are more sensitive to tire imbalance than SLA suspension systems. 5) \_\_\_\_\_
  - A) True
  - B) False
  
- 6) A vibration is felt in the steering wheel during braking only. A common cause of the vibration is \_\_\_\_\_. 6) \_\_\_\_\_
  - A) worn idler arm
  - B) out of balance front tires
  - C) loose or defective wheel bearing(s)
  - D) warped or nonparallel front disc brake rotors
  
- 7) A vibration that is felt in the steering wheel at highway speeds is usually due to \_\_\_\_\_. 7) \_\_\_\_\_
  - A) defective or out-of-balance rear tires
  - B) defective or out-of-balance front tires
  - C) out-of-balance or bent drive shaft on a RWD vehicle
  - D) out-of-balance drive axle shaft or defective outer CV joints on a FWD vehicle

- 8) 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? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 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
  - D) Neither technician
- 10) An engine-related vibration can be best detected by performing a \_\_\_\_\_. 10) \_\_\_\_\_
- A) neutral run-up test
  - B) test drive on a rough road
  - C) hard acceleration from a stop
  - D) any of the above

## Answer Key

Testname: AT6\_132A

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) A

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6) D

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7) B

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8) B

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9) C

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10) A

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