

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