

Name \_\_\_\_\_

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

- 1) Technician A says that a vibration felt at highway speeds with the transmission in neutral, is not likely to be caused by the engine. Technician B says that a vibration felt during acceleration could be due to uneven U-joint angles. Which technician is correct? 1) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician
- 2) A vibration during braking is usually caused by \_\_\_\_\_. 2) \_\_\_\_\_  
A) Out-of-balance tire  
B) Warped front brake rotors  
C) A bent wheel  
D) An out-of-balance or bent drive shaft
- 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) MacPherson strut systems are more sensitive to tire imbalance than SLA suspension systems. 4) \_\_\_\_\_  
A) True  
B) False
- 5) Wheel and tire imbalance is the most common source of vibrations that occur in what frequency range? 5) \_\_\_\_\_  
A) 5-20 Hz  
B) 20-50 Hz  
C) 50-100 Hz  
D) 100-150 Hz
- 6) Technician A says that a vibration felt in the seats may be caused by improper rear wheel balance. Technician B says that a vibration felt in the steering wheel may be caused by a worn clutch throwout bearing. Which technician is correct? 6) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians  
D) Neither technician

- 7) Technician A uses a dial indicator to check a hub flange for runout. Technician B says that excessive runout on a wheel hub flange would cause low frequency vibrations. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) What does NVH stand for? 8) \_\_\_\_\_
- A) Noise, vibration, and harshness
  - B) Normal vibration harmonics
  - C) Net value of harshness
  - D) None of these
- 9) What is the most common cause of low frequency vibration? 9) \_\_\_\_\_
- A) Tire or wheel problems
  - B) Defective transmission mount
  - C) Defective CV joint
  - D) None of these
- 10) Driveline vibrations due to a bent or out of balance drive shaft on a rear-wheel drive vehicle usually produce a vibration that is \_\_\_\_\_. 10) \_\_\_\_\_
- A) Felt in the steering wheel
  - B) Seen as a vibrating dash or hood
  - C) Felt in the seat or all over the vehicle
  - D) Felt by the rear passengers only

## Answer Key

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1) C

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2) B

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3) A

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4) A

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5) A

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6) A

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7) C

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8) A

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9) A

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10) C

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