

Name _____

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

- 1) Technician A says that low frequency vibrations may be heard as a moan or hum. Technician B says that high frequency vibrations may be heard as a moan or hum. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 2) 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?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 3) A vibration is felt in the steering wheel during braking only. A common cause of the vibration is _____.
 - 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

- 4) Driveline vibrations due to a bent or out of balance driveshaft on a rear-wheel drive vehicle usually produce a vibration that is _____.
 - 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

- 5) A vibration or noise can be caused by all of the following EXCEPT _____.
 - A) exhaust system
 - B) wheels and tires
 - C) incorrect driveshaft angles
 - D) exhaust smoke

- 6) Wheel and tire imbalance is the most common source of vibrations that occur in what frequency range?
 - A) 5-20 Hz
 - B) 20-50 Hz
 - C) 50-100 Hz
 - D) 100-150 Hz

- 7) 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?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 8) When diagnosing a vibration, technician A asks the customer when the problem first appeared. Technician B says that misaligned engine or transmission mounts can cause vibration. Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 9) Which of these could cause incorrect driveline angles on a rear wheel drive vehicle?
- A) Incorrect ride height
 - B) Mismatched tires
 - C) Low differential fluid
 - D) A bad U-joint
- 10) A driveshaft can be checked for proper balance by marking the circumference of the shaft in four places and running the vehicle drive wheels to spot the point of imbalance using a(n) _____.
- A) reed tachometer
 - B) strobe light
 - C) electronic vibration analyzer (EVA)
 - D) scan tool

Answer Key

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1) B

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2) A

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3) D

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4) C

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5) D

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6) A

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7) C

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8) C

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9) A

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10) B

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