Automotive Technology 7th Edition
Chapter 127
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary cause of a loud engine noise if the alternator bracket bolt is missing?
A. Alternator failure
B. Engine misfire
C. Bracket hitting the engine
D. Loose serpentine belt

2. What is a common cause of a vibration felt in the steering wheel during braking only?
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

3. What should be checked if a vibration when braking is felt throughout the vehicle and brake pedal, but not the steering wheel?
A. Front brakes
B. Rear drums or rotors
C. Steering linkage
D. Wheel alignment

4. What is the cause of a vibration if it occurs while using the parking brake to stop the vehicle?
A. Front brake issue
B. Rear brake issue
C. Engine misalignment
D. Transmission fault

5. What is the effect of overtightening wheel lugs with an impact wrench?
A. Improved wheel balance
B. Decreased tire wear
C. Distortion of wheel, hub, and rotor
D. Enhanced braking performance

6. What is the consequence of a collapsed engine mount?
A. Increased engine efficiency
B. Reduced vehicle noise
C. Improved engine stability
D. Starter motor hitting the frame

7. What is the recommended method for installing wheels to avoid vibrations and brake pedal pulsations?
A. Using an air impact wrench
B. Tightening wheel lugs in any order
C. Using a torque wrench or torque-limiting adapter bars
D. Hand-tightening only

8. What is the cause of a vibration that is felt during heavy acceleration at low speeds?
A. Incorrect universal joint angles
B. Incorrect tire pressure
C. Faulty power steering pump
D. Misaligned wheels

9. What is a common cause of high-frequency vibrations (50–100 Hz)?
A. Driveshaft imbalance
B. Engine-related issues
C. Wheel misalignment
D. Brake system fault

10. How is the frequency of a vibration from an engine determined?
A. Engine RPM divided by 60
B. Engine RPM multiplied by 60
C. Engine RPM plus 60
D. Engine RPM minus 60

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Answer Key

1. C

2. D

3. B

4. B

5. C

6. D

7. C

8. A

9. B

10. A