Automotive Technology 7th Edition
Chapter 127
Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the significance of the rolling circumference of tires on the same axle in a four-wheel-drive vehicle?
A. It affects the vehicle's speedometer accuracy.
B. It influences the differential and can cause damage.
C. It determines the tire's tread life.
D. It affects the vehicle's fuel efficiency.

2. What is the maximum allowable driveshaft runout?
A. 0.030 inch (0.8 mm)
B. 0.10 inch (2.5 mm)
C. 0.50 inch (13 mm)
D. 0.015 inch (0.4 mm)

3. What is the purpose of measuring driveshaft U-joint phasing?
A. To ensure proper lubrication
B. To check for wear and tear
C. To verify correct installation
D. To ensure they are parallel with each other

4. What is the most common source of vibrations that occur in the 20–50 Hz frequency range?
A. Engine misfire
B. Driveshaft imbalance
C. Wheel/tire imbalance
D. Transmission issues

5. A driveshaft can be checked for proper balance using what tool?
A. A tachometer
B. Strobe light
C. Electronic vibration analyzer
D. Scan tool

6. When is a defective clutch release (throw-out) bearing usually heard?
A. Clutch engaged in neutral
B. Clutch disengaged in any gear
C. Clutch depressed to take up any free play
D. Clutch engaged in first gear or reverse

7. The rolling circumference of both tires on the same axle of a four-wheel-drive vehicle should be within what measurement?
A. 0.1 inch (2.5 mm)
B. 0.3 inch (7.6 mm)
C. 0.6 inch (15 mm)
D. 1.2 inch (30 mm)

8. Measuring driveshaft U-joint phasing involves checking to see if the front and rear U-joints are what with each other?
A. Parallel
B. Crossed
C. At an angle
D. Opposite phased

9. What is the effect of a bent bearing hub on a vehicle?
A. Increased fuel efficiency
B. Improved handling
C. Vibration often blamed on wheels or tires
D. Decreased braking distance

10. What is the recommended practice when servicing transmissions and drive axles with a noise complaint?
A. Replace only the defective bearing
B. Replace all bearings
C. Lubricate all moving parts
D. Tighten all external bolts

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Answer Key

1. B

2. B

3. D

4. C

5. C

6. A

7. B

8. A

9. C

10. B