

Name: _____

Date: _____

1. What is the purpose of a torque arm in a vehicle's suspension system?

- A. To control axle windup
- B. To adjust the ride height
- C. To provide lateral stability
- D. To reduce suspension travel

2. What must be done to ensure safety when replacing the rear shock absorbers?

- A. Support the rear axle
- B. Deflate the tires
- C. Disconnect the battery
- D. Remove the rear springs

3. What is meant by "dog tracking" in vehicle dynamics?

- A. The vehicle pulling to one side during acceleration
- B. The vehicle's rear end swaying during cornering
- C. The sideways angle of the vehicle while traveling straight
- D. The vehicle's tendency to oversteer

4. What is the purpose of a track rod in a vehicle's suspension?

- A. To control the ride height
- B. To provide a mounting point for the shocks
- C. To maintain proper wheel alignment
- D. To reduce body roll during cornering

5. What are the disadvantages of a solid rear axle?

- A. Increased unsprung weight
- B. Reduced ride comfort
- C. Limited wheel travel
- D. All of the above

6. What is the role of the center bolt in a leaf spring assembly?

- A. To hold the leaves together
- B. To attach the spring to the frame
- C. To adjust the spring tension
- D. To provide a pivot point for the axle

7. What can cause the rear axle to be held in an incorrect location?

- A. A broken center bolt in the leaf spring
- B. A faulty shock absorber
- C. A damaged U-bolt
- D. All of the above

8. What is the significance of "witness marks" on a broken spring?
- A. They indicate the point of failure
 - B. They show that the spring coils have been hitting each other
 - C. They are used for aligning the new spring during installation
 - D. They indicate the spring has been re-tempered
9. What should be inspected for damage during a thorough visual inspection of the rear suspension?
- A. Rubber bushings
 - B. Bump stops
 - C. Coil springs
 - D. All of the above
10. What is a common cause of a harsh ride in a vehicle after new shock absorbers are installed?
- A. Overinflated tires
 - B. Incorrect shock absorber type
 - C. Not cycling the air shocks before installation
 - D. Loose suspension bolts

Automotive Technology 7th Edition

Chapter 113

Multiple Choice Quiz B

Answer Key

1. A

2. A

3. C

4. C

5. D

6. A

7. A

8. B

9. D

10. C