

Manual Drivetrains and Axles 9th Edition

Chapter 9

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the key purpose of a driveshaft in a rear-wheel-drive vehicle?
 - A. To increase fuel efficiency
 - B. To connect the transmission to the differential
 - C. To support the vehicle's weight
 - D. To improve steering control

2. Which component is essential in a two-part driveshaft for supporting its length?
 - A. Yoke
 - B. CV joint
 - C. Center support bearing
 - D. Slip yoke

3. What is a common material used in modern driveshaft construction for reducing weight?
 - A. Carbon-fiber-plastic
 - B. Aluminum
 - C. Rubber
 - D. Both A and B

4. In front-wheel-drive vehicles, what is the function of outer CV joints?
 - A. To connect the driveshaft to the wheels
 - B. To allow for plunge movement
 - C. To facilitate steering and suspension movement
 - D. To balance the driveshaft

5. How does a torn CV joint boot primarily impact the CV joint?
 - A. Improves efficiency
 - B. Reduces noise
 - C. Causes contamination and lubrication loss
 - D. Increases flexibility

6. What type of CV joint allows for axial movement and is typically found as inner joints in FWD vehicles?
 - A. Fixed joint
 - B. Tripod joint
 - C. Rzeppa joint
 - D. Plunge joint

7. What is a common issue caused by dented driveshafts?
 - A. Enhanced torque transmission
 - B. Reduced vibration
 - C. Metal fatigue and potential collapse
 - D. Increased flexibility

8. Why are dampener weights used on some drive axle shafts?

- A. To increase strength
- B. To dampen vibration
- C. To balance the shaft
- D. To reduce noise

9. What issue arises from unequal-length drive axle shafts in front-wheel-drive vehicles?

- A. Reduced acceleration
- B. Enhanced stability
- C. Torque steer
- D. Improved cornering

10. What does the construction of driveshafts from composite materials like carbon-fiber-plastic help avoid?

- A. Need for a center support bearing
- B. Frequent lubrication
- C. Yoke welding
- D. Use of CV joints

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Answer Key

1. B

2. C

3. D

4. C

5. C

6. D

7. C

8. B

9. C

10. A