

Manual Drivetrains and Axles 9th Edition

Chapter 9

Multiple Choice Quiz A

Name: _____

Date: _____

1. What is the primary purpose of the center support bearing in a two-part driveshaft?
 - A. To reduce vibration
 - B. To support the driveshaft's length
 - C. To increase torque transmission
 - D. To balance the driveshaft

2. In front-wheel-drive vehicles, what type of CV joint is commonly used as the outer joint?
 - A. Tripod joint
 - B. Fixed joint
 - C. Plunge joint
 - D. U-joint

3. What effect does a torn CV boot have on a CV joint?
 - A. Increases lubrication
 - B. Leads to overheating
 - C. Causes contamination and lubrication loss
 - D. Improves joint efficiency

4. What type of movement is allowed by inner CV joints in front-wheel-drive vehicles?
 - A. Only rotational movement
 - B. Axial and radial movement
 - C. Lengthening and shortening during suspension movement
 - D. Fixed position without movement

5. Which factor contributes to torque steer in front-wheel-drive vehicles with unequal-length drive axle shafts?
 - A. Equal drive axle shaft angles
 - B. Unequal drive axle shaft angles
 - C. Balanced drive axle shafts
 - D. Use of tripod CV joints

6. What is the typical material used for constructing modern driveshafts?
 - A. Composite materials
 - B. Aluminum
 - C. Iron
 - D. Either A or B

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

8. Why are some drive axle shafts equipped with dampener weights?

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

9. What is the consequence of unequal engine torque application to front drive wheels in FWD vehicles?

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

10. How are the forces in a hollow steel tube driveshaft primarily transmitted?

- A. Through the inner surface of the tubing
- B. Via the yokes welded to the ends
- C. Via the center support bearing
- D. Through the surface in tension

Manual Drivetrains and Axles 9th Edition

Chapter 9

Multiple Choice Quiz A

Answer Key

1. B

2. B

3. C

4. C

5. B

6. D

7. C

8. D

9. C

10. D