

Manual Drivetrains and Axles 9th Edition
Chapter 6
Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary function of the input shaft in a transaxle?
 - A. To divide power flow between CV joints
 - B. To hold the driving gears for each forward speed
 - C. To act as the transmission output
 - D. To mount the final drive ring gear

2. In a transaxle, the main shaft is also known as:
 - A. The clutch shaft
 - B. The output shaft
 - C. The reverse idler shaft
 - D. The intermediate shaft

3. Which component is responsible for allowing speed differences when a vehicle turns a corner?
 - A. Input shaft
 - B. Main shaft
 - C. Differential pinion gears and side gears
 - D. Reverse idler shaft

4. The final drive ring gear in a transaxle is mounted on:
 - A. The main shaft
 - B. The input shaft
 - C. The differential case
 - D. The reverse idler shaft

5. What is the role of the reverse idler shaft in a transaxle?
 - A. To provide reverse gear functionality
 - B. To act as the primary power source
 - C. To connect to the drive shafts
 - D. To hold the driven gears

6. In most front-wheel-drive vehicles, the engine-transmission package is:
 - A. Longitudinally mounted
 - B. Mounted off-center
 - C. Directly connected to the differential
 - D. Transversely mounted

7. Torque steer in front-wheel-drive vehicles is primarily caused by:
 - A. Unequal CV joint angles
 - B. The tendency for the longer drive shaft to twist
 - C. Differential pinion gear malfunction
 - D. Imbalance in the main shaft

8. The driving gears on the input shaft of a transaxle are responsible for:

- A. Dividing power flow to the wheels
- B. Providing the specified bearing preload
- C. Representing the power paths for each forward speed
- D. Adjusting the bearings to a slight preload

9. In a transaxle, the drive pinion gear is part of:

- A. The main shaft
- B. The input shaft
- C. The differential case
- D. The final drive ring gear

10. The differential in a transaxle typically distributes torque:

- A. Unequally to accommodate speed differences
- B. Equally, typically with a 50/50 distribution
- C. Primarily to the longer drive shaft
- D. Only to the front wheels

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Answer Key

1. B

2. D

3. C

4. C

5. A

6. D

7. A

8. C

9. A

10. B