

Manual Drivetrains and Axles 9th Edition

Chapter 6

Multiple Choice Quiz B

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Which gear set is typically engaged in a transaxle when the vehicle is in first gear?
  - A. The smallest gear on the input shaft drives the largest gear on the main shaft.
  - B. The largest gear on the input shaft drives the smallest gear on the main shaft.
  - C. The intermediate gear on the input shaft drives the corresponding gear on the main shaft.
  - D. The reverse idler gear is engaged with the main shaft.
  
2. In a typical transaxle, what type of lubrication is commonly used?
  - A. Synthetic lubrication.
  - B. Splash lubrication.
  - C. Pressurized lubrication.
  - D. Dry lubrication.
  
3. What is the primary material used in the construction of transaxle cases?
  - A. Cast iron.
  - B. Cast aluminum.
  - C. Stainless steel.
  - D. Carbon fiber.
  
4. How many shafts does a typical transaxle have?
  - A. Two.
  - B. Three.
  - C. Four.
  - D. Five.
  
5. What causes torque steer in front-wheel-drive vehicles?
  - A. Differential gearing.
  - B. The type of lubrication used.
  - C. The material of the transaxle case.
  - D. Unequal CV joint angles.
  
6. What is the role of the selective shim in a transaxle?
  - A. To adjust the gear ratios.
  - B. To provide the specified bearing preload.
  - C. To control the lubrication flow.
  - D. To engage the reverse gear.
  
7. In a transaxle, the final drive ring and pinion gears are typically what type?
  - A. Helical gears.
  - B. Spur gears.
  - C. Bevel gears.
  - D. Hypoid gears.

8. What is the purpose of the differential in a transaxle?

- A. To provide reverse gear functionality.
- B. To control the gear shifting mechanism.
- C. To divide the power flow between the two CV joints.
- D. To maintain the lubrication inside the transaxle.

9. In most front-wheel-drive vehicles, how are the engine and transaxle mounted?

- A. Longitudinally.
- B. Transversely.
- C. Diagonally.
- D. Vertically.

10. What is a common feature of the transmission part of a transaxle compared to a rear-wheel-drive transmission?

- A. Different number of shafts.
- B. Similar gear ratios.
- C. Different material construction.
- D. Different lubrication system.

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Answer Key

1. A

2. B

3. B

4. C

5. D

6. B

7. D

8. C

9. B

10. A