

Automatic Transmissions and Transaxles 8th Edition

Chapter 2

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the primary function of a vehicle drivetrain?
 - A. To transfer power from the engine to the drive wheels
 - B. To control the vehicle's braking system
 - C. To manage the vehicle's electrical systems
 - D. To enhance the fuel efficiency of the engine

2. Which component in a manual transmission is used to stop the power flow for shifting gears?
 - A. Torque converter
 - B. Clutch
 - C. Differential
 - D. Flywheel

3. In a planetary gear set, what is the name of the gear located in the center?
 - A. Annulus gear
 - B. Planet gear
 - C. Sun gear
 - D. Ring gear

4. What does the term 'final drive' refer to in a drivetrain?
 - A. The last set of reduction gears in a gear train
 - B. The initial gear that engages the engine
 - C. The differential in the axle assembly
 - D. The transmission output shaft

5. What is the purpose of a torque converter in an automatic transmission?
 - A. To manually shift gears
 - B. To transmit engine torque to the transmission
 - C. To increase the vehicle's top speed
 - D. To reduce engine noise

6. Which of the following is NOT a function of a drivetrain?
 - A. Multiplying engine torque
 - B. Controlling engine speed
 - C. Enhancing the vehicle's aerodynamics
 - D. Allowing the driver to control power flow

7. What is the role of a differential in a drivetrain?
 - A. To increase engine power
 - B. To allow the drive wheels to rotate at different speeds
 - C. To lock the drive wheels
 - D. To shift gears in the transmission

8. In an automatic transmission, what is the purpose of planetary gear set ratios?

- A. To provide a single fixed gear ratio
- B. To offer multiple gear ratios including overdrive and reverse
- C. To control the vehicle's steering mechanism
- D. To regulate the engine's fuel consumption

9. What is a common characteristic of all-wheel-drive (AWD) vehicles?

- A. They have a single differential in the drive axle assembly
- B. They are primarily designed for off-road use
- C. They are equipped with a center differential for improved on-road handling
- D. They cannot be operated on pavement in four-wheel drive

10. What must the engine and drivetrain overcome to propel the vehicle?

- A. Only aerodynamic drag
- B. Only rolling friction
- C. Only grade resistance
- D. Both rolling friction and aerodynamic drag

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Answer Key

1. A

2. B

3. C

4. A

5. B

6. C

7. B

8. B

9. C

10. D