

Manual Drivetrains and Axles 9th Edition

Chapter 5

Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary purpose of a manual transmission in a vehicle?
 - A. To provide neutral and reverse gear speeds
 - B. To facilitate gear changes
 - C. To provide a range of forward gear speeds
 - D. All of the above

2. Which component is not a part of a manual transmission?
 - A. Torque converter
 - B. Synchronizer
 - C. Input shaft
 - D. Main shaft

3. What is the role of synchronizers in a manual transmission?
 - A. To increase engine torque
 - B. To facilitate smooth gear shifting
 - C. To reverse the direction of rotation
 - D. To transmit power through different ratios

4. Which type of linkage is most commonly used in manual transmissions?
 - A. Hydraulic linkage
 - B. Internal linkage
 - C. External linkage
 - D. Electronic linkage

5. What is the function of the main shaft in a manual transmission?
 - A. To support the cluster gear
 - B. To facilitate gear changes
 - C. To transmit power to the driveshaft
 - D. To reverse the direction of rotation

6. During a shift, what are the three stages a synchronizer goes through?
 - A. Engagement, disengagement, and locking
 - B. Alignment, misalignment, and re-alignment
 - C. Speed adjustment, alignment, and locking
 - D. Blocking, coupling, and engagement

7. What is the purpose of transmission cases and bearings in manual transmissions?
 - A. To increase torque capacity
 - B. To facilitate gear changes
 - C. To provide structural support and reduce friction
 - D. To reverse the direction of rotation

8. What determines the torque capacity of a transmission?

- A. The size of the gear and bearings used
- B. The type of lubricant used
- C. The length of the transmission
- D. The type of linkage used

9. In which gear is the idler gear typically used?

- A. First gear
- B. Second gear
- C. Third gear
- D. Reverse

10. How does power flow through a manual transmission?

- A. From the output shaft to the input shaft
- B. Through at least two gear sets before transferring to the main shaft
- C. Directly from the input shaft to the driveshaft
- D. Through a single gear set to the output shaft

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Answer Key

1. D

2. A

3. B

4. B

5. C

6. D

7. C

8. A

9. D

10. B