

Name: _____

Date: _____

1. What is the primary function of the input shaft in a manual transmission?
 - A. To provide a direct drive to the wheels
 - B. To exert a twisting or turning force
 - C. To control the shift forks
 - D. To house the front grease seal

2. Which gear is directly connected to the input shaft?
 - A. Cluster gears
 - B. Speed gears
 - C. Counter gears
 - D. Main gear

3. What is the role of the countershaft in a manual transmission?
 - A. To provide the main gear reduction
 - B. To transfer torque to the main shaft
 - C. To support the clutch throwout bearing
 - D. To transmit engine torque to the drive wheels

4. How are the gears on the countershaft typically engaged with the main shaft?
 - A. Through a direct connection
 - B. Via the synchronizer hub
 - C. Using a sliding idler gear
 - D. By the shift lever directly

5. What is the purpose of the synchronizer assembly in a manual transmission?
 - A. To lock the speed gear to the output shaft
 - B. To multiply the engine torque
 - C. To provide a structural member of the drive train
 - D. To support the input shaft bearing

6. In a five-speed transmission, what is the function of the third gear?
 - A. To provide direct drive
 - B. To rotate the countershaft
 - C. To transfer torque at a gear reduction ratio
 - D. To engage the reverse gear

7. What is the significance of the distance between the mainshaft and countershaft in a transmission?
 - A. It determines the gear ratio
 - B. It specifies the type of lubricant required
 - C. It indicates the torque capacity of the transmission
 - D. It controls the shift mechanism

8. What is meant by a "77 mm transmission"?
- A. The length of the input shaft
 - B. The distance between the center of the input shaft and the countershaft
 - C. The size of the front bearing retainer
 - D. The torque capacity in metric units
9. How does the torque flow through a manual transmission when the clutch is engaged?
- A. From the input shaft to the main gear to the cluster gear to the drive wheels
 - B. Directly from the input shaft to the drive wheels
 - C. From the countershaft to the cluster gears to the main shaft
 - D. From the input shaft to the countershaft to the cluster gears to the main shaft
10. What are the gears called that are permanently attached to the countershaft?
- A. Speed gears
 - B. Cluster gears
 - C. Floating gears
 - D. Fixed gears

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Chapter 122

Multiple Choice Quiz A

Answer Key

1. B

2. D

3. B

4. B

5. A

6. C

7. C

8. B

9. D

10. B