Automatic Transmissions and Transaxles 8th Edition
Chapter 8
Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the primary function of the apply piston in a clutch system?
A. To release the clutch
B. To apply hydraulic pressure
C. To engage the clutch
D. To control the transmission fluid flow

2. In most transmissions, what is the role of a one-way clutch?
A. To allow rotation in both directions
B. To allow rotation in a clockwise direction but block counterclockwise rotation
C. To engage the transmission in reverse gear
D. To control the flow of transmission fluid

3. What is the purpose of grooves in the lining material of friction plates?
A. To increase friction
B. To reduce the weight of the clutch
C. To help fluid leave or enter between the plates during a shift
D. To enhance the aesthetic appeal of the clutch

4. What is the typical clearance between each friction surface-lined and unlined plate in a clutch?
A. 0.001 to 0.005 inch
B. 0.010 to 0.015 inch
C. 0.020 to 0.035 inch
D. 0.050 to 0.075 inch

5. What is the most common lining material used in clutches?
A. Leather
B. Paper
C. Metal
D. Rubber

6. What is the term used to describe shifts from neutral to drive or reverse while the vehicle is at rest?
A. Garage shifts
B. Power shifts
C. Dynamic shifts
D. Static shifts

7. How does wet friction occur in a clutch system?
A. Because ATF fills the space between the clutch plates
B. Due to the presence of air between the clutch plates
C. Due to the high temperature generated by friction
D. Because of the mechanical pressure applied on the plates

8. What is the function of steel plates in a clutch system?
A. To engage with the clutch drum/housing
B. To increase the torque capacity of the clutch
C. To serve as heat sinks to remove heat from the friction plates
D. To control the flow of transmission fluid

9. What is the role of the drum in a clutch system?
A. To store transmission fluid
B. To mate with external splines on steel plates
C. To act as a hydraulic pump
D. To dissipate heat

10. What determines the torque-carrying capacity of a clutch?
A. The number of plates
B. The amount of lining area on the plates
C. The amount of pressure squeezing the plates together
D. All of the above

Automatic Transmissions and Transaxles 8th Edition
Chapter 8
Multiple Choice Quiz B
Answer Key

1. C

2. B

3. C

4. A

5. B

6. A

7. A

8. C

9. B

10. D