

Automatic Transmissions and Transaxles 8th Edition

Chapter 3

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the primary function of Automatic Transmission Fluid (ATF) in torque converters?
 - A. Cooling the engine
 - B. Lubricating the transmission
 - C. Transferring power
 - D. Cleaning internal components

2. Which of the following is NOT a function of Automatic Transmission Fluid (ATF)?
 - A. Increasing fuel efficiency
 - B. Providing hydraulic pressure in clutches and band servos
 - C. Transferring heat to cool transmission parts
 - D. Lubricating bearings, bushings, and gears

3. What type of ATF is used in early band-type automatic transmissions?
 - A. Non-friction modified
 - B. Highly friction modified
 - C. Friction modified
 - D. Synthetic

4. Which component in ATF prevents the formation of air bubbles?
 - A. Viscosity index improvers
 - B. Friction modifiers
 - C. Foam inhibitors
 - D. Anti-wear agents

5. What is the typical size range of particles that can be trapped by a surface filter in an automatic transmission?
 - A. 10 to 30 microns
 - B. 50 to 100 microns
 - C. 150 to 200 microns
 - D. 200 to 250 microns

6. What is the primary disadvantage of using synthetic ATF?
 - A. Lower viscosity
 - B. Incompatibility with older transmissions
 - C. High cost
 - D. Reduced lubrication

7. What is the purpose of a turbulator in an ATF cooler?
 - A. To filter out contaminants
 - B. To cause turbulence in the fluid flow for thorough cooling
 - C. To increase the fluid pressure
 - D. To reduce the fluid's viscosity

8. Which of the following is NOT a component of ATF?

- A. Rust inhibitors
- B. Corrosion inhibitors
- C. Dye
- D. Carbon additives

9. What is the main advantage of using synthetic ATF?

- A. It is less expensive
- B. It remains fluid at very low temperatures
- C. It increases fuel efficiency
- D. It is compatible with all types of transmissions

10. What is the recommended practice when towing a vehicle with an automatic transmission?

- A. Towing with the drive wheels on the ground
- B. Towing for short distances at high speeds
- C. Lifting the drive wheels off the ground or removing the driveshaft
- D. Towing is not recommended under any circumstances

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Answer Key

1. C

2. A

3. A

4. C

5. B

6. C

7. B

8. D

9. B

10. C