

Automatic Transmissions and Transaxles 8th Edition

Chapter 3

Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary function of automatic transmission fluid (ATF)?
 - A. Cooling the engine
 - B. Lubricating the transmission
 - C. Fuel efficiency improvement
 - D. Enhancing brake performance

2. Which type of ATF is recommended for use in most Ford transmission models?
 - A. Dexron VI
 - B. Type III
 - C. Mercon V
 - D. Toyota WS

3. What is the main purpose of additives in ATF?
 - A. To color the fluid
 - B. To improve fuel economy
 - C. To produce favorable operating characteristics
 - D. To increase the fluid's boiling point

4. What is the typical operating temperature range for an automatic transmission?
 - A. 100°F to 150°F
 - B. 170°F to 180°F
 - C. 200°F to 250°F
 - D. 300°F to 350°F

5. What is the role of a transmission fluid cooler?
 - A. To increase ATF pressure
 - B. To reduce ATF viscosity
 - C. To transfer heat from ATF to the engine coolant
 - D. To add additives to the ATF

6. Why are ATF heaters used in some vehicles?
 - A. To improve cold operation
 - B. To increase ATF boiling point
 - C. To reduce ATF consumption
 - D. To enhance ATF color

7. What is the main reason for using a supplementary cooler in automatic transmission systems?
 - A. To increase ATF flow rate
 - B. To prevent ATF from freezing
 - C. To ensure adequate cooling
 - D. To filter out contaminants

8. What is a common feature of most ATF filters?
- A. They contain a magnet to remove iron particles
 - B. They change the color of the ATF
 - C. They increase the ATF's boiling point
 - D. They add friction modifiers to the ATF

9. What is the consequence of using the wrong type of ATF in a transmission?
- A. Improved fuel efficiency
 - B. Enhanced cooling
 - C. Potential damage to the transmission
 - D. Increased ATF color intensity

10. What is the function of a turbulator in an ATF cooler?
- A. To speed up ATF flow
 - B. To cause turbulence for better cooling
 - C. To increase ATF pressure
 - D. To purify the ATF

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Answer Key

1. B

2. C

3. C

4. B

5. C

6. A

7. C

8. A

9. C

10. B