

Automatic Transmissions and Transaxles 8th Edition

Chapter 4

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the role of a pressure relief valve in an automatic transmission?
 - A. To increase fluid pressure
 - B. To prevent fluid contamination
 - C. To release excess pressure
 - D. To regulate temperature

2. The hydraulic system in an automatic transmission is responsible for:
 - A. Cooling the engine
 - B. Transmitting electrical signals
 - C. Reducing gear noise
 - D. Applying clutches and bands

3. What is the function of a spool valve in an automatic transmission?
 - A. To control fluid flow
 - B. To act as a filter
 - C. To generate hydraulic pressure
 - D. To cool the transmission fluid

4. How does a Gerotor pump operate in an automatic transmission?
 - A. By using centrifugal force
 - B. Through electromagnetic induction
 - C. Using interlocking gears
 - D. By varying its displacement

5. The term 'mainline pressure' in a transmission system refers to:
 - A. The maximum pressure achievable
 - B. The pressure in the main transmission line
 - C. The standard operating pressure
 - D. The pressure at the pump outlet

6. What is the significance of 'dynamic seals' in a transmission system?
 - A. They help in gear shifting
 - B. They prevent fluid leakage
 - C. They increase hydraulic pressure
 - D. They cool the transmission fluid

7. The application force in a hydraulic system is multiplied when:
 - A. The output piston is larger than the input piston
 - B. The fluid is at high temperature
 - C. The system is in a high-pressure state
 - D. The transmission is in neutral

8. What role does the pressure regulator valve play during stop-start operation in a transmission?

- A. It stops the fluid flow
- B. It maintains line pressure
- C. It disconnects the transmission
- D. It reduces fluid temperature

9. What is the typical pressure range for the gear selector in reverse or manual low?

- A. 50 to 100 PSI
- B. 150 to 300 PSI
- C. 300 to 450 PSI
- D. 400 to 550 PSI

10. In automatic transmission hydraulics, what does 'exhaust' refer to?

- A. The release of heat from the system
- B. The expulsion of gases from the engine
- C. The noise generated by the transmission
- D. Fluid flow back to the pan

Automatic Transmissions and Transaxles 8th Edition

Chapter 4

Multiple Choice Quiz B

Answer Key

1. C

2. D

3. A

4. C

5. C

6. B

7. A

8. B

9. B

10. D