

Automatic Transmissions and Transaxles 8th Edition

Chapter 5

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the primary function of the accumulator in an automatic transmission system?
 - A. To increase fluid pressure
 - B. To absorb fluid during the pressure build-up stage
 - C. To regulate the converter pressure
 - D. To provide a pressure proportional to engine load

2. In the context of automatic transmissions, what does a solenoid primarily control?
 - A. The flow of automatic transmission fluid through hydraulic circuits
 - B. The speed of the vehicle
 - C. The temperature of the transmission fluid
 - D. The pressure inside the accumulator

3. Which of the following is NOT a name for a pressure control solenoid?
 - A. Electronic pressure control (EPC)
 - B. Pressure control (PC)
 - C. Variable force solenoid (VFS)
 - D. Dynamic pressure regulator (DPR)

4. What is the effect of increasing the orifice size in an automatic transmission system?
 - A. Slower fluid flow rate
 - B. Decreased line pressure
 - C. Faster fluid flow rate
 - D. Reduced shift firmness

5. What is the role of the governor in a non-computerized hydraulically-controlled transmission?
 - A. To control the temperature of the transmission fluid
 - B. To regulate hydraulic pressure based on vehicle speed
 - C. To adjust the quality of the shift
 - D. To provide lubrication to the gear train

6. What happens when a solenoid's electrical circuit is closed in an automatic transmission?
 - A. The core moves against the force of a spring
 - B. The transmission shifts to a higher gear
 - C. The fluid pressure decreases significantly
 - D. The solenoid becomes deactivated

7. What is the consequence of too slow a shift at pressures that are too low in an automatic transmission?
 - A. Increased fuel efficiency
 - B. Slippage and burning of the friction material
 - C. Enhanced shift quality
 - D. Reduced wear and tear on the transmission

8. Which component in an automatic transmission is described as a simple device for controlling fluid flow?

- A. Solenoid
- B. Accumulator
- C. Check ball
- D. Orifice

9. What does a duty cycle of 100% indicate in the context of transmission solenoids?

- A. The solenoid is completely off
- B. The solenoid is fully energized on
- C. The solenoid is not being controlled
- D. The solenoid operates at half capacity

10. What is the typical resistance range of pressure control solenoids in electronic automatic transmissions?

- A. 0.5 to 2 ohms
- B. 1 to 4 ohms
- C. 5 to 10 ohms
- D. 10 to 15 ohms

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Answer Key

1. B

2. A

3. D

4. C

5. B

6. A

7. B

8. C

9. B

10. B