Automatic Transmissions and Transaxles 8th Edition
Chapter 5
Multiple Choice Quiz A

Name: _____ Date: _____

1. What effect does increasing the orifice size in an automatic transmission have?
A. Slower flow rate
B. Faster flow rate
C. Decreased line pressure
D. No change in flow rate

2. In the context of automatic transmissions, what is the primary function of a governor?
A. To control engine speed
B. To adjust the transmission's shift timing
C. To regulate hydraulic pressure based on vehicle speed
D. To monitor the transmission fluid temperature

3. What is the main purpose of an accumulator in an automatic transmission system?
A. To store excess transmission fluid
B. To regulate the temperature of the transmission fluid
C. To absorb fluid during the pressure build-up stage of a clutch or band application
D. To increase the transmission fluid pressure

4. Which of the following best describes a solenoid in an automatic transmission?
A. A device that measures the transmission fluid level
B. An electromagnetic switch controlling fluid flow
C. A mechanical link between the engine and transmission
D. A sensor for detecting vehicle speed

5. What is the primary role of shift solenoids in electronically controlled automatic transmissions?
A. To control engine speed
B. To regulate the oil pressure in the engine
C. To control the pressure force and position of the shift valve
D. To monitor the transmission fluid temperature

6. Which of the following is NOT a name for a pressure control solenoid in electronic automatic transmissions?
A. Electronic pressure control (EPC)
B. Pressure control (PC)
C. Variable force solenoid (VFS)
D. Hydraulic pressure regulator (HPR)

7. What is the function of the throttle valve (TV) in an automatic transmission?
A. To control the air intake of the engine
B. To provide a pressure proportional to engine load for shift timing and quality
C. To regulate the temperature of the transmission fluid
D. To monitor the transmission fluid level

8. How does a check ball function in an automatic transmission system?
A. By controlling the flow of transmission fluid
B. By measuring the transmission fluid pressure
C. By regulating the temperature of the transmission fluid
D. By storing excess transmission fluid

9. What happens to the magnetic field of a solenoid when the current increases?
A. The magnetic field contracts
B. The magnetic field remains constant
C. The magnetic field reverses its polarity
D. The magnetic field expands

10. In an automatic transmission, what is the role of a flow control valve?
A. To regulate the flow of transmission fluid to different circuits
B. To monitor the temperature of the transmission fluid
C. To store excess transmission fluid
D. To measure the transmission fluid pressure

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Answer Key

1. B
2. C
3. C
4. B
5. C
6. D
7. B
8. A
9. D
10. A