

Automatic Transmissions and Transaxles 8<sup>th</sup> Edition

Chapter 4

Multiple Choice Quiz A

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What type of pump is commonly used in automatic transmissions?
  - A. Centrifugal pump
  - B. Gear-type pump
  - C. Diaphragm pump
  - D. Piston pump
  
2. Pascal's Law is fundamental in the study of:
  - A. Hydraulics
  - B. Aerodynamics
  - C. Thermodynamics
  - D. Electromagnetics
  
3. In an automatic transmission, the 'line pressure' is typically regulated by:
  - A. The engine
  - B. The torque converter
  - C. The pressure regulator valve
  - D. The transmission fluid
  
4. A variable displacement pump in a transmission is used to:
  - A. Cool the transmission fluid
  - B. Adjust the fluid flow rate
  - C. Change the gear ratio
  - D. Lubricate the engine
  
5. The main function of the valve body in an automatic transmission is to:
  - A. Store transmission fluid
  - B. Increase fuel efficiency
  - C. Reduce emissions
  - D. Control the hydraulic pressure
  
6. Which component is crucial for maintaining fluid flow through the torque converter?
  - A. The clutch
  - B. The pump
  - C. The differential
  - D. The radiator
  
7. The concept of 'fluid power' in hydraulics refers to:
  - A. The energy of moving water
  - B. Hydraulic fluid under high pressure
  - C. The power generated by fluid pumps
  - D. Transmitting motion/force using a fluid

8. Typical line pressure in an automatic transmission when the accelerator pedal is fully pressed (WOT) is:

- A. 10 to 50 PSI
- B. 60 to 120 PSI
- C. 90 to 150 PSI
- D. 200 to 250 PSI

9. In the context of automatic transmissions, what does 'mechatronic' refer to?

- A. A mechanical and electronic unit
- B. A type of transmission fluid
- C. A manual gear shifting mechanism
- D. An advanced type of clutch

10. The manual valve in an automatic transmission is controlled by:

- A. The vehicle's computer
- B. Hydraulic pressure
- C. The driver
- D. The transmission's sensors

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Answer Key

1. B

2. A

3. C

4. B

5. D

6. B

7. D

8. C

9. A

10. C