

Automatic Transmissions and Transaxles 8th Edition

Chapter 10

Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary function of a Transmission Control Module (TCM) in vehicles?
 - A. Controlling the air conditioning system
 - B. Regulating the engine temperature
 - C. Managing the transmission's shifting operation
 - D. Monitoring the vehicle's fuel efficiency

2. The Brake On/Off (BOO) switch is used to signal the TCM when:
 - A. The engine is overheated
 - B. The brake pedal is depressed
 - C. The vehicle reaches a certain speed
 - D. The transmission fluid is low

3. An Electronic Pressure Control (EPC) solenoid controls mainline pressure using:
 - A. Resistance
 - B. Torque
 - C. Current
 - D. Voltage

4. What type of sensor is a Transmission Fluid Temperature (TFT) sensor?
 - A. Negative Temperature Coefficient (NTC) Thermistor
 - B. Potentiometer
 - C. Rheostat
 - D. Transducer

5. The term 'Adaptive Control' in electronic transmission refers to:
 - A. Time taken to make a shift
 - B. Delay between command and shift occurrence
 - C. Change in pressure or timing for consistent shifting
 - D. Default gear position in case of system failure

6. What does a thermocouple temperature sensor in a TCM primarily monitor?
 - A. External environmental temperature
 - B. Transmission fluid temperature
 - C. Internal electronic component temperature
 - D. Engine coolant temperature

7. Which of the following accurately describes a function of the Output Speed Sensor?
 - A. Measures the vehicle's external speed
 - B. Determines the engine's RPM
 - C. Regulates the vehicle's acceleration
 - D. Monitors the transmission's internal shaft RPM

8. What role does the Engine Coolant Temperature (ECT) sensor play in transmission control?

- A. Adjusts the gear shifting based on engine load
- B. Signals the TCM about engine overheating
- C. Controls the temperature of the transmission fluid
- D. Modifies the engine's fuel mixture

9. The Accelerator Pedal Position (APP) sensor in a vehicle is used to:

- A. Monitor brake pedal usage
- B. Regulate the vehicle's speed
- C. Control the transmission's shift points
- D. Determine the position of the throttle

10. What is the main purpose of using thermistors in temperature sensors for transmissions?

- A. To generate heat within the transmission
- B. To measure and transmit temperature data
- C. To cool down the transmission fluid
- D. To resist changes in temperature

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Answer Key

1. C

2. B

3. C

4. A

5. C

6. C

7. D

8. B

9. D

10. B