

Automatic Transmissions and Transaxles 8th Edition

Chapter 13

Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the primary function of a Transmission Control Module (TCM) in a CVT system?
 - A. Control the engine RPM
 - B. Adjust the drive ratio
 - C. Monitor the brake system
 - D. Regulate the fuel injection

2. Which component in a CVT is responsible for changing the position of the upper end of the pulley ratio link?
 - A. Ratio control motor
 - B. Primary pressure sensor (PPS)
 - C. Secondary pressure sensor (SPS)
 - D. Transmission range sensor (TRS)

3. What type of sensor is used as a Transmission Temperature Sensor (TTS) in a CVT?
 - A. Hall effect sensor
 - B. Positive temperature coefficient (PTC) resistor
 - C. Infrared sensor
 - D. Negative temperature coefficient (NTC) thermistor

4. In a CVT, what does the 'rubber band effect' refer to?
 - A. Use of a rubber band in the transmission
 - B. The vehicle speed catching up to engine speed
 - C. Elastic characteristics of the CVT belt
 - D. A specific type of transmission failure

5. Which of the following is NOT a typical input for a CVT's TCM?
 - A. Engine output torque
 - B. Accelerator pedal position
 - C. Transmission fluid temperature
 - D. ABS status signals

6. What is the main advantage of using a CVT over a traditional automatic transmission?
 - A. Higher torque output
 - B. More gear ratios
 - C. Continuous, stepless acceleration
 - D. Simpler mechanical design

7. Which sensor monitors the primary pulley pressure in a CVT?
 - A. Output speed sensor (OSS)
 - B. Engine coolant temperature sensor
 - C. Transmission range sensor (TRS)
 - D. Primary pressure sensor (PPS)

8. What is a common symptom of a faulty input bearing in a CVT?

- A. Grinding noise during acceleration
- B. Ticking sound in park and neutral
- C. Whining noise at high speeds
- D. Delay in gear shifting

9. Which of the following is a direct input to the TCM of a CVT?

- A. Vehicle speed
- B. Line pressure solenoid (LPS)
- C. Primary oil pressure (POP)
- D. Secondary pressure solenoid (SPS)

10. What is the typical diagnostic trouble code range for transmission-related faults in a CVT?

- A. P0300-P0400
- B. P0700-P0800
- C. P0100-P0200
- D. P0500-P0600

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Answer Key

1. B

2. A

3. D

4. B

5. C

6. C

7. D

8. B

9. A

10. B