

Automotive Technology 7th Edition
Chapter 77
Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the default position for the throttle plate in an ETC system?
 - A. Fully closed
 - B. Fully open
 - C. Slightly open
 - D. Varies based on engine temperature

2. What is the purpose of the "Spring Test" performed by the PCM?
 - A. To test the ignition switch or starter motor circuits
 - B. To ensure the throttle can react to commands and return to the default position
 - C. To check the functionality of the APP sensor
 - D. To verify the condition of the throttle plate spring

3. Why is a stepper motor not used in ETC systems?
 - A. It is too expensive
 - B. It is too slow to react compared with a conventional DC electric motor
 - C. It cannot be controlled by the PCM
 - D. It does not have multiple windings

4. What happens during the normal operation of the ETC system when the accelerator pedal is depressed with the transmission in PARK or NEUTRAL?
 - A. The engine speed increases above idle speed
 - B. The engine speed does not increase
 - C. The engine speed will likely be limited to less than 2,000 RPM
 - D. The throttle plate opens to the wide-open position

5. In a cable-operated system, what does the throttle cable do in relation to the APP sensor?
 - A. It directly controls the throttle plate
 - B. It operates the APP sensor located under the hood
 - C. It adjusts the throttle position sensors
 - D. It connects to the ETC module

6. What is indicated by a red lightning bolt symbol on the dash of a Chrysler vehicle?
 - A. The vehicle is in limp-in mode
 - B. A fault in the ETC has been detected
 - C. The cruise control system is active
 - D. The throttle plate is fully open

7. What is the function of the two TP sensors used in the throttle body assembly of an ETC system?
 - A. To provide throttle position signals to the PCM
 - B. To control the throttle plate actuator motor
 - C. To regulate the fuel injection
 - D. To monitor the air intake temperature

8. During the ETC throttle follower test, what should an assistant check for?
- A. The throttle plate moving as the accelerator pedal is depressed
 - B. The voltage signal from the TP sensors
 - C. The engine speed increasing above idle
 - D. The PCM setting a diagnostic trouble code
9. What is the first step in the diagnostic procedure if a fault occurs in the ETC system?
- A. Replace the throttle body assembly
 - B. Verify the customer concern
 - C. Check the voltage signal from the TP sensors
 - D. Perform the throttle follower test
10. What is the PCM's action when a fault is detected in the ETC system?
- A. The engine speed is limited to the default speed
 - B. The throttle plate is locked in the default position
 - C. The vehicle immediately stops
 - D. The throttle plate is opened to the wide-open position

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Answer Key

1. C

2. B

3. B

4. C

5. B

6. B

7. A

8. A

9. B

10. A