

Automotive Technology 7<sup>th</sup> Edition  
Chapter 71: Temperature and Throttle Position Sensors  
Short Answer Quiz

Name:

Date:

1. Describe the primary purpose of the Engine Coolant Temperature (ECT) sensor in computer-equipped vehicles.

2. How does the ECT sensor affect the fuel mixture in relation to the engine's temperature?

3. What role does the ECT sensor play in controlling the ignition timing of an engine?

4. List at least three additional functions or systems that rely on the input from the ECT sensor.

5. Why are ECT sensors typically located near the thermostat housing on most engines?

Automotive Technology 7<sup>th</sup> Edition  
Chapter 71: Temperature and Throttle Position Sensors  
Short Answer Quiz

Name:

Date:

6. Explain the process of testing an ECT sensor using a scan tool and the significance of the temperature readings.

7. What should be checked if there is a significant difference between the scan tool temperature reading of the coolant and the actual temperature?

8. Describe the steps involved in performing a quick and easy ECT test using a scan tool.

9. What diagnostic trouble code is associated with the ECT sensor and what does it indicate?

10. Discuss the importance of the ECT sensor's readings in relation to the intake air temperature (IAT) sensor, especially in varying weather conditions.