

Automotive Technology 7<sup>th</sup> Edition  
Chapter 83: Onboard Diagnosis  
Short Answer Quiz

Name:

Date:

1. What is the purpose of a functionality test in onboard diagnostics?
2. Describe the process and significance of a PCM conducting an electrical test on inputs and outputs.
3. Explain the conditions under which a comprehensive component monitor would set a DTC and illuminate the MIL.
4. What are the differences between continuous and noncontinuous monitors in the OBD-II system?
5. How does the PCM determine a misfire and what are the two types of misfires it can detect?

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6. What is the role of the fuel trim monitor in the PCM, and what triggers the MIL in relation to fuel trim?

7. What constitutes a "good trip" in the context of OBD-II monitors and DTC clearing?

8. How does the PCM use freeze-frame data, and when is it typically captured?

9. What are the different types of DTCs, and how do they differ in terms of setting conditions and MIL illumination?

10. What is the significance of Mode \$06 in OBD-II diagnostics, and what information can it provide?