

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?

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2. Describe the process and significance of a PCM conducting an electrical test on inputs and outputs.

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3. Explain the conditions under which a comprehensive component monitor would set a DTC and illuminate the MIL.

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4. What are the differences between continuous and noncontinuous monitors in the OBD-II system?

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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?

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

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

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

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

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