

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which type of EGR valve requires a positive exhaust system pressure to operate? 1) _____
A) Positive backpressure
B) Negative backpressure
C) Linear
D) Digital

- 2) Manually opening an EGR valve with a vacuum pump or scan tool will cause the engine to idle roughly or stall. 2) _____
A) True
B) False

- 3) At about what temperature does oxygen combine with the nitrogen in the air to form NOx? 3) _____
A) 500 degrees F
B) 750 degrees F
C) 1500 degrees F
D) 2500 degrees F

- 4) Which of the following are symptoms of a clogged EGR passage? 4) _____
A) Detonation during acceleration or cruise
B) Reduced NOx emissions
C) Rough idle and stalling
D) Poor performance and lack of power

- 5) Blocking off the EGR valve passages will have no effect on the OBD-II system. 5) _____
A) True
B) False

- 6) The following statements are all correct EXCEPT _____. 6) _____
A) linear EGR systems require exhaust backpressure
B) OBD-II vehicles require monitoring of the EGR system
C) the MIL will be turned on after the second failure
D) many vehicles use the MAP sensor to monitor EGR operation

- 7) What causes the nitrogen and oxygen in the air to combine and form NOx? 7) _____
A) Sunlight
B) Any spark will cause this to occur
C) Heat above 2,500°F (1,370°C)
D) Chemical reaction in the catalytic converter

- 8) A vehicle comes into the shop and the technician retrieves the diagnostic code P0401 "EGR flow insufficient." Which of these could be the cause? 8) _____
- A) Clogged EGR ports or passages
 - B) EGR valve stuck open
 - C) Electrical wiring shorted
 - D) All of these are correct.
- 9) When testing an EGR system for proper operation using a vacuum gauge, how much should intake manifold vacuum drop when the EGR valve is commanded open by a scan tool? 9) _____
- A) 6-8 in. Hg.
 - B) 1-2 in. Hg.
 - C) 6-8 PSI
 - D) 14.7 PSI
- 10) The linear EGR valve uses _____ to control the opening of the valve. 10) _____
- A) a pulse-width modulated solenoid
 - B) a vacuum
 - C) a pressure valve
 - D) none of these

Answer Key

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- 1) A
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- 2) A
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- 3) D
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- 4) A
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- 5) B
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- 6) A
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- 7) C
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- 8) A
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- 9) A
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- 10) A
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