

Name _____

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

- 1) Two technicians are discussing the diagnosis of a charge air cooler. Technician A says that any leaks will be indicated by a film of engine oil at the leak area. Technician B says that leaks can be located using florescent dye and a black light. Which technician is correct? 1) _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

- 2) Which of these is used in controlling the EGR valve? 2) _____
A) PCM
B) Pulse width modulation
C) Glow plug module
D) Both A and B

- 3) What can be used to remove carbon from an EGR cooler? 3) _____
A) Distilled water
B) Simple Green cleaner
C) Boiling hot soapy water
D) Clean diesel fuel

- 4) The charge air cooler increases the _____ of the air coming from the turbocharger. 4) _____
A) Speed
B) Temperature
C) Density
D) Amount

- 5) A vehicle has an illuminated MIL and a DTC P0401 is stored. What does this indicate? 5) _____
A) Low EGR flow
B) EGR flow too high
C) A loose fuel cap
D) A leak in the exhaust system

- 6) The intake manifold heater will shut OFF at about _____ degrees F. 6) _____
A) 15-21
B) 60-70
C) 30
D) 32

- 7) To ensure proper seating, a glow plug should be installed with a(an) _____ wrench. 7) _____
A) Torque
B) Impact
C) Flare nut
D) 6 point box end

- 8) Carbon buildup in the EGR system is most likely caused by _____. 8) _____
- A) Highway driving
 - B) Short drive cycles
 - C) Excessive idle time
 - D) Both B and C
- 9) Which of the following best explains the purpose of the air induction system? 9) _____
- A) Provides an adequate supply of clean, fresh air needed to support combustion events
 - B) Delivers desired engine performance
 - C) Contributes to clean tailpipe emissions
 - D) All of the above
- 10) What is the purpose of the throttle valve on a diesel engine? 10) _____
- A) Assist EGR flow into the engine
 - B) Control engine speed
 - C) Used for cruise control
 - D) Block air flow to shut off the engine

Answer Key

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1) D

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2) D

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3) B

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4) C

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5) A

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6) B

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7) A

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8) D

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9) D

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10) A

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