

Name _____

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

- 1) The air induction system on the Nissan Titan equipped with a Cummins 5.0 liter V8 utilizes _____ 1) _____
_____.
- A) A low-pressure turbocharger
 - B) A bypass valve
 - C) A high-pressure turbocharger
 - D) All of the above
- 2) Two technicians are discussing the operation of a Cummins 6.7 liter diesel engine. Technician A says that the turbocharger on this engine does not use a wastegate. Technician B disagrees, saying that all turbochargers have to have a wastegate to limit pressure. Which technician is correct? 2) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 3) The default position of the airflow control blade is _____. 3) _____
- A) Closed
 - B) Slightly open
 - C) Varies with RPM
 - D) Wide open
- 4) If the DEF warning messages are ignored and the fluid level drops to less than .6 gallons, how will vehicle performance be affected? 4) _____
- A) The engine will only idle
 - B) Top speed limited to 40 mph
 - C) The engine will not start
 - D) Vehicle will operate in second gear only
- 5) The Cummins 5.0 liter V* engine in the Nissan Titan utilizes a(n) _____. 5) _____
- A) Compacted graphite iron block
 - B) Aluminum cylinder head with DOHC
 - C) 4 valves per cylinder
 - D) All of the above
- 6) The EGR cooler on a 6.7 liter Cummins diesel engine is of the _____ type. 6) _____
- A) Coolant-to-air
 - B) Air cooled
 - C) Refrigerant-cooled
 - D) Reverse flow

- 7) The turbocharger actuator on a Cummins 6.7 liter engine has seized and will not move. What must be done to repair it? 7) _____
- A) Replace the actuator housing
 - B) Replace the turbocharger
 - C) Soak the actuator in clean diesel fuel
 - D) Clean the actuator with a steam cleaner
- 8) The turbocharger on the 6.7 liter Cummins engine _____. 8) _____
- A) Is a fixed vane turbocharger
 - B) Uses a wastegate
 - C) Is a variable geometry turbocharger
 - D) Utilizes two turbochargers to eliminate "turbo lag"
- 9) The first generation Cummins diesel engine used in a Ram truck is designated as _____. 9) _____
- A) 6BT
 - B) ISB
 - C) ISB CR
 - D) ISB 6.7
- 10) The crankshaft position sensor on a 6.7 liter Cummins diesel engine is being discussed. Technician A says _____ that the signal is used to synchronize transmission shifting. Technician B says that the signal is used to synchronize injector timing. Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1) D

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2) A

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3) D

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4) C

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5) D

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6) A

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7) B

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8) C

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9) A

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10) B

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