

Name _____

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

- 1) Technician A says that diesel engines can be tested using a scan tool to determine a weak or non-functioning cylinder. Technician B says that glow plugs can be used to help start a cold diesel engine and help prevent excessive white smoke during warm-up. Which technician is correct? 1) _____
- A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician
- 2) The diesel exhaust fluid is injected _____. 2) _____
- A) After the oxidation catalyst
 - B) Into the exhaust manifold
 - C) Just in front of the muffler
 - D) At the end of the tail pipe
- 3) High pressure common rail fuel injectors are opened by _____. 3) _____
- A) Solenoids
 - B) Injector pump pressure
 - C) Engine oil pressure
 - D) Either A or C
- 4) A diesel engine should produce at least _____ psi of compression pressure and all cylinders should be within 50 psi of each other. 4) _____
- A) 150
 - B) 250
 - C) 300
 - D) 450
- 5) Selective catalytic reduction (SCR) uses urea injection to reduce _____ emissions. 5) _____
- A) NO_x
 - B) CO₂
 - C) H₂O
 - D) CO
- 6) What part should be removed to test cylinder compression on a diesel engine? 6) _____
- A) Injector
 - B) Intake valve rocker arm and stud
 - C) Glow plug
 - D) Glow plug or injector

- 7) The diesel particulate filter in the exhaust system is used to trap _____. 7) _____
- A) Soot
 - B) Fine sand particles
 - C) Rust from inside the exhaust system
 - D) CO₂ particles
- 8) The diesel injection pump is usually driven by a _____. 8) _____
- A) Gear off the camshaft
 - B) Belt off the crankshaft
 - C) Shaft drive off of the crankshaft
 - D) Chain drive off of the camshaft
- 9) The use of a variable vane turbocharger allows the elimination of the _____. 9) _____
- A) Turbocharger wastegate
 - B) Diesel oxygen sensor
 - C) Intake air cooler
 - D) Exhaust cooler
- 10) Technician A says that glow plugs are used to help start a diesel engine and are shut off as soon as the engine starts. Technician B says that the glow plugs are turned off as soon as a flame is detected in the combustion chamber. Which technician is correct? 10) _____
- A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

Answer Key

Testname: ENGINES9_11B

1) C

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2) A

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3) D

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4) C

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5) A

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6) D

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7) A

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8) A

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9) A

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10) D

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