

Name _____

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

- 1) If the engine is equipped with piezo-type injectors, the voltage at the injectors can be as high as _____ volts. 1) _____
 - A) 42
 - B) 250
 - C) 600
 - D) 20

- 2) The camshaft on a Duramax diesel engine is driven by _____. 2) _____
 - A) Four timing chains
 - B) A helium forged gear
 - C) A helical cut gear
 - D) Pushrods

- 3) The Duramax diesel engine is designed to use what engine oil? 3) _____
 - A) SAE 5W-30
 - B) SAE 10W-30
 - C) SAE 15W-40
 - D) SAE 20W-50

- 4) On the Duramax engine, how is the fuel delivered from the fuel tank to the injection system? 4) _____
 - A) There is an electric vacuum pump that pulls the fuel to the engine
 - B) A pump in the fuel tank delivers the fuel
 - C) A gear pump in the HPPFP draws the fuel from the tank
 - D) By a piston driven suction pump

- 5) Technician A says that GM uses a 4 cylinder Duramax on some trucks. Technician B says that Duramax diesel engines are all of the V-8 design. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 6) The Duramax diesel fuel tank module has all of these components EXCEPT _____. 6) _____
 - A) A pickup screen
 - B) A jet pump
 - C) A fuel level sensor
 - D) The module has all of these

- 7) The primer pump used on a Duramax diesel engine is used _____. 7) _____
 - A) After performing service operations where the fuel system was opened
 - B) To send starting fuel to the high-pressure pump
 - C) To fill the fuel filter
 - D) To pressurize the fuel for use by the injectors

- 8) The Duramax engines use what type of engine block and cylinder heads? 8) _____
- A) Cast iron block and cylinder heads
 - B) Cast iron block with aluminum cylinder heads
 - C) Aluminum block and cylinder heads
 - D) Aluminum block and cast iron cylinder heads
- 9) The Duramax diesel after treatment uses a number of sensors in the exhaust system. What is the purpose of the NOX1 and NOX2 sensors? 9) _____
- A) Detect and correct for engine knocking noises
 - B) Test the efficiency of the knock sensors
 - C) Test the efficiency of the SCR system
 - D) Adjust the air/fuel ratio
- 10) How are the Duramax head gaskets marked to indicate their thickness? 10) _____
- A) Numbers are embossed in the face of the gasket
 - B) The location of a hole within an oval
 - C) By letters stamped at the corner of each gasket
 - D) By a series of dots in the center of the gasket

Answer Key

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1) B

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2) C

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3) C

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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) B

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9) C

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10) B

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