

Name _____

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

- 1) The Duramax engines use what type of engine block and cylinder heads? 1) _____
 - 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

- 2) Technician A says that a Duramax diesel engine uses an oil cooler located in front of the radiator. Technician B says that the Duramax diesel engine oil cooler is an air cooled unit. 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) If the engine is equipped with piezo-type injectors, the voltage at the injectors can be as high as _____ volts. 3) _____
 - A) 42
 - B) 250
 - C) 600
 - D) 20

- 4) How are the Duramax head gaskets marked to indicate their thickness? 4) _____
 - 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

- 5) The primer pump used on a Duramax diesel engine is used _____. 5) _____
 - 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

- 6) 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? 6) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 7) The Duramax diesel engine is designed to use what engine oil? 7) _____
- A) SAE 5W-30
 - B) SAE 10W-30
 - C) SAE 15W-40
 - D) SAE 20W-50
- 8) The Duramax diesel after treatment uses a number of sensors in the exhaust system. What is the purpose of the NOX1 and NOX2 sensors? 8) _____
- 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
- 9) The Duramax exhaust system includes a diffuser that is placed _____ in the exhaust system. 9) _____
- A) After the muffler
 - B) Ahead of the particulate filter
 - C) Near the DEF injector
 - D) Near the engine
- 10) The fuel conditioning module contains _____. 10) _____
- A) Fuel filter
 - B) Water-in-fuel (WIF) sensor
 - C) Manual primer pump
 - D) All of the above

Answer Key

Testname: LVDE1_23B

1) B

Page Ref: 268

2) D

Page Ref: 275

3) B

Page Ref: 281

4) B

Page Ref: 277-278

5) A

Page Ref: 279

6) A

Page Ref: 272

7) C

Page Ref: 277

8) C

Page Ref: 282

9) A

Page Ref: 285

10) D

Page Ref: 278