

Name _____

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

- 1) How does ambient air enter the turbocharger? 1) _____
 - A) Through the center of the compressor
 - B) At the edges of the turbine
 - C) From the edge of the compressor housing
 - D) From the intake valve ports

- 2) An engine equipped with a sequential turbocharger system has both a low- and a high-pressure turbocharger. Which one receives the intake air first? 2) _____
 - A) The high-pressure turbocharger
 - B) The low-pressure turbocharger
 - C) They switch back and forth, depending on engine load
 - D) None of these are correct

- 3) Turbocharger diagnosis is being discussed. Technician A says that a turbocharger fault could set a diagnostic trouble code (DTC). Technician B says that since the turbocharger is a mechanical device, not electronic, it cannot set a DTC. Which technician is correct? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 4) A turbocharger allows _____ when used on a diesel engine. 4) _____
 - A) High volumetric efficiency
 - B) Engine RPMs of over 100,000
 - C) A lower hood profile
 - D) More exhaust noise

- 5) What is used to rotate the turbocharger impeller? 5) _____
 - A) The speed of the exhaust gases
 - B) The coolant flowing through the turbocharger
 - C) The expansion of the exhaust gases
 - D) The oil under pressure from the engine

- 6) Boost pressure is generally measured in _____. 6) _____
 - A) Inch Hg
 - B) PSI
 - C) Inch H₂O
 - D) Inch pound

- 7) Late-model diesel engines use _____ to help cool the turbocharger bearings. 7) _____
 - A) Cooling fins
 - B) Engine coolant
 - C) Engine oil
 - D) Refrigerant

8) On a variable vane turbocharger, closing the vanes causes the turbine RPM to _____ . 8) _____
A) Decrease
B) Remain constant
C) Stop
D) Increase

9) Oil coking means _____. 9) _____
A) The refining of engine oil needed for use in diesel engines
B) The overheating of engine oil
C) The oil cooler used in diesel engines
D) The same thing as synthetic oil

10) The turbocharger recaptures energy from the _____ of a diesel engine. 10) _____
A) Air cleaner
B) Coolant
C) Exhaust heat
D) Radiator

Answer Key

Testname: LVDE1_9B

1) A

Page Ref: 109

2) B

Page Ref: 112

3) A

Page Ref: 115

4) A

Page Ref: 107

5) C

Page Ref: 108

6) B

Page Ref: 108

7) B

Page Ref: 110

8) D

Page Ref: 112

9) B

Page Ref: 110

10) C

Page Ref: 108