

Name _____

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

- 1) Before the timing chain can be inspected and removed, the _____ must be removed. 1) _____
 - A) Rocker cover (valve cover)
 - B) Vibration damper or balancer
 - C) Cylinder head
 - D) Intake manifold (V-type engines only)

- 2) A valve job restores the valves and seats. This increases manifold vacuum and may cause _____ 2) _____
 - A) Rough idle
 - B) High idle speeds
 - C) Increased oil consumption
 - D) Coolant consumption

- 3) Technician A says that the intake and exhaust manifolds have to be removed before removing the engine from the vehicle. Technician B says that on FWD vehicles it is often easier to remove the engine from underneath rather than remove the engine from the top of the vehicle. Which technician is correct? 3) _____
 - A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

- 4) When removing cylinder heads, the fasteners should be removed in what order? 4) _____
 - A) The reverse order of tightening
 - B) The same order as the specified tightening sequence
 - C) Any order
 - D) All fasteners loosened slightly in the same order as the tightening sequence and then removed in any order

- 5) When removing an engine from a vehicle equipped with an automatic transmission, the torque converter normally _____. 5) _____
 - A) Stays mounted on the transmission
 - B) Is removed attached to the engine engine
 - C) Must be drained
 - D) Remains connected to the flexplate

- 6) Technician A says that lifting hooks should be used when hoisting an engine. Technician B says that the engine can remain level during removal. Which technician is correct? 6) _____
 - A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

- 7) The ridge at the top of the cylinder _____. 7) _____
- A) Is caused by the fact that the rings do not travel all the way to the top of the cylinder
 - B) Represents a failure of the top piston ring to correctly seal
 - C) Should not be removed before removing pistons except when reboring the cylinders
 - D) Means that a crankshaft with an incorrect stroke was installed in the engine
- 8) Before removing the piston and rod assembly from the cylinder block, you should do all of these, EXCEPT _____. 8) _____
- A) Make sure the rods are marked to their respective cylinders
 - B) Remove the cylinder ridge with a ridge reamer
 - C) Install rod bolt protectors
 - D) Notch the top of the piston for identification
- 9) Cylinder head bolts should be loosened _____. 9) _____
- A) From the ends, working toward the middle of the head
 - B) From the middle, working toward the ends of the head
 - C) From the exhaust side first, then the intake side
 - D) Any of these
- 10) A long block can be made from a short block with the addition of _____. 10) _____
- A) Cylinder heads and valve train
 - B) Intake and exhaust manifolds
 - C) Oil pump, oil pan, and timing chain cover
 - D) Fuel pump, carburetor, and air cleaner assembly

Answer Key

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1) B

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2) C

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3) B

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4) A

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5) A

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6) A

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7) A

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8) D

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9) A

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10) A

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