

Name \_\_\_\_\_

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

- 1) When removing cylinder heads, the fasteners should be removed in what order? 1) \_\_\_\_\_
  - 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
  
- 2) Before removing the piston and rod assembly from the cylinder block, you should do all of these, EXCEPT \_\_\_\_\_. 2) \_\_\_\_\_
  - 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
  
- 3) What needs to be removed before the valves can be removed from the cylinder head? 3) \_\_\_\_\_
  - A) The valve keepers
  - B) The camshaft, if OHV engine
  - C) The cylinder head from the block
  - D) Both A and C
  
- 4) Before the timing chain can be inspected and removed, the \_\_\_\_\_ must be removed. 4) \_\_\_\_\_
  - A) rocker cover (valve cover)
  - B) vibration damper
  - C) cylinder head
  - D) intake manifold (V-type engines only)
  
- 5) Technician A says that the connecting rod and main bearing caps should be marked before removing to ensure that they can be reinstalled in the exact same location when re-assembled. Technician B says that the tip of the valve stem should be filed before removing valves from the cylinder head to help prevent damage to the valve guide. Who is right? 5) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 6) After the oil pan is removed, the technician should inspect \_\_\_\_\_. 6) \_\_\_\_\_
  - A) the oil pump and pickup screen
  - B) to make certain that all rod and main bearings are numbered or marked
  - C) the valve lifters (tappets) for wear
  - D) both A and B

- 7) Cylinder head bolts should be loosened \_\_\_\_\_. 7) \_\_\_\_\_  
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
- 8) Powdered connecting rods can be marked with \_\_\_\_\_. 8) \_\_\_\_\_  
A) a punch  
B) a steel number stamp  
C) a permanent ink marker  
D) any of these
- 9) A short block includes the \_\_\_\_\_. 9) \_\_\_\_\_  
A) block  
B) crankshaft and main bearings  
C) pistons, rods, and rod bearings  
D) all of the above
- 10) When removing the engine only from a vehicle equipped with an automatic transmission, the torque converter normally \_\_\_\_\_. 10) \_\_\_\_\_  
A) stays mounted on the transmission  
B) is removed attached to the engine engine  
C) must be drained  
D) remains connected to the flexplate

## Answer Key

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1) A

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2) D

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3) D

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4) B

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5) C

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6) D

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7) A

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8) C

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9) D

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10) A

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