

## *Automotive Engines 10th*

### **Quiz 23A**

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

1. Before removing the piston and rod assembly from the cylinder block, you should do all of these, EXCEPT \_\_\_\_\_. 1. \_\_\_\_\_
  - 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
  
2. With the rocker cover (valve cover) removed, the technician can inspect all items EXCEPT \_\_\_\_\_. 2. \_\_\_\_\_
  - A) combustion chamber deposits
  - B) rocker arms and valve spring
  - C) camshaft (overhead camshaft engine only)
  - D) valve stems and pushrods (overhead valve engines only)
  
3. A long block can be made from a short block with the addition of \_\_\_\_\_. 3. \_\_\_\_\_
  - A) cylinder heads and valve train
  - B) intake and exhaust manifolds
  - C) oil pump, oil pan, and timing chain cover
  - D) fuel injectors and fuel rails
  
4. 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? 4. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
5. 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? 5. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
6. When removing an engine from a vehicle equipped with an automatic transmission, the torque converter normally \_\_\_\_\_. 6. \_\_\_\_\_
  - A) stays mounted on the transmission
  - B) is removed attached to the engine engine
  - C) must be drained
  - D) remains connected to the flexplate

7. When removing cylinder heads, the fasteners should be removed in what order? 7. \_\_\_\_\_
- 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
8. A valve job restores the valves and seats. This increases manifold vacuum and may cause \_\_\_\_\_ 8. \_\_\_\_\_
- A) rough idle
  - B) high idle speeds
  - C) increased oil consumption
  - D) coolant consumption
9. Before the timing chain can be inspected and removed, the \_\_\_\_\_ must be removed. 9. \_\_\_\_\_
- A) rocker cover (valve cover)
  - B) vibration damper or balancer
  - C) cylinder head
  - D) intake manifold (V-type engines only)
10. Cylinder head bolts should be loosened \_\_\_\_\_. 10. \_\_\_\_\_
- 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

## Answer Key

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1. D  
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2. A  
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3. A  
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4. A  
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5. B  
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6. A  
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