

Name _____

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

- 1) Technician A says that a minor overhaul can often be done with the engine remaining in the vehicle. Technician B says that a core is required for most remanufactured engines. Which technician is correct? 1) _____
 - A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

- 2) Before the timing chain can be inspected and removed, the _____ must be removed. 2) _____
 - A) Rocker cover (valve cover)
 - B) Vibration damper or balancer
 - C) Cylinder head
 - D) Intake manifold (V-type engines only)

- 3) A short block includes the _____. 3) _____
 - A) Block
 - B) Crankshaft and main bearings
 - C) Pistons, rods, and rod bearings
 - D) All of the above

- 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) 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. Which technician is correct? 5) _____
 - A) Technician A
 - B) Technician B
 - C) Both technicians
 - D) Neither technician

- 6) A valve job restores the valves and seats. This increases manifold vacuum and may cause _____ 6) _____
 - A) Rough idle
 - B) High idle speeds
 - C) Increased oil consumption
 - D) Coolant consumption

- 7) Before the valves are removed from the cylinder head, what operations need to be completed? 7) _____
- A) Remove valve locks (keepers)
 - B) Remove cylinder head (s) from the engine
 - C) Remove burrs from the stem of the valve (s)
 - D) All of the above
- 8) After the oil pan (sump) is removed, the technician should inspect _____. 8) _____
- 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
- 9) Powdered connecting rods can be marked with _____. 9) _____
- A) A punch
 - B) A steel number stamp
 - C) A permanent ink marker
 - D) Any of these
- 10) What needs to be removed before the valves can be removed from the cylinder head? 10) _____
- A) The valve keepers
 - B) The camshaft, if OHV engine
 - C) The cylinder head from the block
 - D) Both A and C

Answer Key

Testname: ENGINES9_24A

1) C

Page Ref: 329-330

2) B

Page Ref: 335

3) D

Page Ref: 330

4) A

Page Ref: 333

5) C

Page Ref: 334, 336

6) C

Page Ref: 329

7) D

Page Ref: 336

8) D

Page Ref: 334

9) C

Page Ref: 334

10) A

Page Ref: 336