

## Automotive Engines 10th

### Quiz 34A

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

1. Which of these is TRUE about checking bearing clearances using Plastigage? 1. \_\_\_\_\_
  - A) The journal should be clean and oil free
  - B) The cap should be torqued to factory specifications
  - C) The wider the strip means the narrower the oil clearance
  - D) All of the above
  
2. Cam bearings should be installed \_\_\_\_\_. 2. \_\_\_\_\_
  - A) dry
  - B) oiled
  - C) with 0.100 inches of crush
  - D) both B and C
  
3. The torque-angle method of tightening bolts involves which of these processes? 3. \_\_\_\_\_
  - A) Turning all bolts the same number of turns
  - B) Torquing to specifications and loosening by a specified number of degrees
  - C) Torquing to one-half specifications, then to three-quarter torque, then to full torque
  - D) Turning bolts a specified number of degrees after initial torque
  
4. Technician A says that oil pressure should be tested before installation of the engine in the vehicle. Technician B says that some cylinder heads use the torque-to-yield method, where the head bolts are tightened to a specified torque and then rotated an additional specified number of degrees. 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. What can be used to check that the heads are at the correct angle for the intake manifold on a V-type engine? 5. \_\_\_\_\_
  - A) A metal rule
  - B) An angle gauge
  - C) A tape measure
  - D) A dial indicator
  
6. On an overhead cam engine the cams are timed to the crankshaft using \_\_\_\_\_ on the sprockets. 6. \_\_\_\_\_
  - A) timing marks
  - B) pockets
  - C) wavy lines
  - D) a shortened sprocket tooth
  
7. Which of these is the correct method for adjusting hydraulic lifters? 7. \_\_\_\_\_
  - A) Adjust to a clearance of 0.008" and then loosen 1/2 turn
  - B) Adjust to a zero clearance and loosen 3/4 of a turn
  - C) Adjust to zero clearance and then tighten a specified amount
  - D) Adjust to 0.008" and cranks the engine; the valves will self-adjust

8. Turning the oil pump before starting the engine should be done for all of these reasons, EXCEPT 8. \_\_\_\_\_  
\_\_\_\_\_.

- A) lubricate engine bearings
- B) lubricate valve train components
- C) supply oil to the camshaft
- D) to get the distributor in the right position

9. About how much of the turning torque applied to a head bolt is lost to friction? 9. \_\_\_\_\_

- A) 20%
- B) 40%
- C) 60%
- D) 80%

10. A coating often used to keep an engine from rusting during assembly is called \_\_\_\_\_. 10. \_\_\_\_\_

- A) engine oil
- B) assembly lube
- C) fogging oil
- D) penetrating oil

## Answer Key

Testname: ENGINES 10 34A

1. D  
Page Ref: 490
2. A  
Page Ref: 489
3. D  
Page Ref: 500
4. C  
Page Ref: 500; 507
5. B  
Page Ref: 487
6. A  
Page Ref: 502
7. C  
Page Ref: 504
8. D  
Page Ref: 507
9. D  
Page Ref: 499
10. C  
Page Ref: 487