

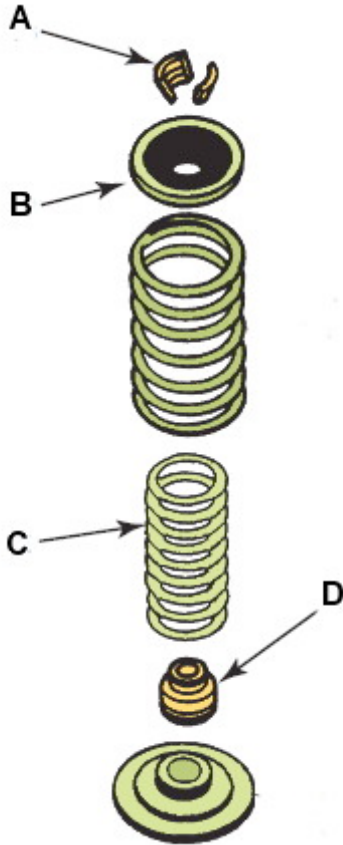
*Automotive Engines 10th*

**Quiz 26A**

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

1. Valve stem height is most critical on which of these? 1. \_\_\_\_\_
- A) Adjustable hydraulic lifter systems
  - B) Adjustable solid lifter systems
  - C) Overhead cam engines
  - D) Non-adjustable solid lifter systems

2. Which of these components is the valve seal? 2. \_\_\_\_\_



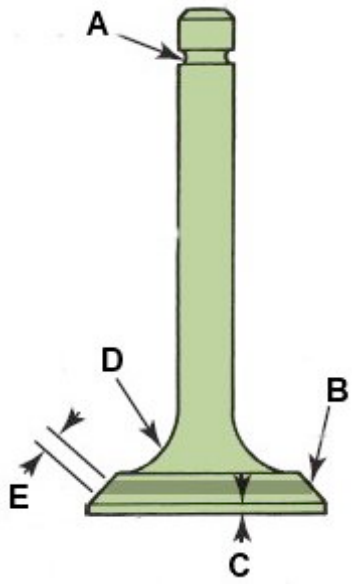
- A) A
- B) B
- C) C
- D) D

3. Technician A that says free and positive are two types of valve rotators. Technician B says that valve grinding should start with truing the valve tip; then the face should be refinished. Which technician is correct? 3. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

4. Before a valve seat can be reconditioned or replaced, the \_\_\_\_\_ must first be reconditioned. 4. \_\_\_\_\_
- A) valve guide
  - B) valve seals
  - C) umbrella seals
  - D) cylinder bore
5. The proper relationship between intake and exhaust valve diameter is \_\_\_\_\_. 5. \_\_\_\_\_
- A) intake valve size is 85% of exhaust valve size
  - B) exhaust valve size is 85% of intake valve size
  - C) exhaust valve size is 38% of intake valve size
  - D) intake valve size is 45% of exhaust valve size
6. Technician A says that the exhaust valve is larger than the intake valve to ensure that all the exhaust gases leave the cylinder. Technician B says that the exhaust valve is larger than the intake valve to ensure proper heat dissipation. Which technician is correct? 6. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
7. In a normally operating engine, intake and exhaust valves are opened by a cam and closed by \_\_\_\_\_. 7. \_\_\_\_\_
- A) rocker arms or cam follower
  - B) valve springs
  - C) lifters/tappets
  - D) valve guides and/or pushrods
8. Never remove more material from the tip of a valve than \_\_\_\_\_ inches. 8. \_\_\_\_\_
- A) 0.001
  - B) 0.002
  - C) 0.020
  - D) 0.050
9. Technician A says that valve springs should be tested for squareness and proper spring force. Technician B says that the exhaust valve is about 50 percent of the size of the intake valve. Which technician is correct? 9. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

10. Which part of the valve is called the valve margin?

10. \_\_\_\_\_



- A) A
- B) B
- C) C
- D) D
- E) E

## Answer Key

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