

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. What is the primary characteristic of a hypereutectic piston?
  - A. Uses about 16% silicon
  - B. Is a cast piston
  - C. Is a forged piston
  - D. Both A and B
  
2. Many aluminum piston skirts are plated with:
  - A. Tin or moly graphite
  - B. Lead
  - C. Antimony
  - D. Terneplate
  
3. A hypereutectic piston has a higher:
  - A. Weight than an aluminum piston
  - B. Silicon content
  - C. Tin content
  - D. Nickel content
  
4. The purpose of casting steel struts into an aluminum piston is to:
  - A. Provide increased strength
  - B. Provide increased weight at the top part of the piston for stability
  - C. Control thermal expansion
  - D. Both A and C
  
5. Full-floating piston pins are retained by:
  - A. Lock rings
  - B. A drilled hole with roll pin
  - C. An interference fit between rod and piston pin
  - D. An interference fit between piston and piston pin
  
6. The space behind the ring is called:
  - A. Side clearance
  - B. Forward clearance
  - C. Back clearance
  - D. Piston ring clearance
  
7. A misaligned connecting rod causes what type of engine wear?
  - A. Cylinder taper
  - B. Barrel shape cylinders
  - C. Ridge wear
  - D. Diagonal wear on the piston skirt

8. Side clearance is a measure taken between the:

- A. Piston (side skirt); cylinder wall
- B. Piston pin; piston pin retainer (clip)
- C. Piston ring; piston ring groove
- D. Compression ring; oil control ring

9. Piston ring gap should only be measured after:

- A. Cleaning the piston
- B. Installing the piston in the cylinder
- C. Checking the ring for wear
- D. The engine has been warmed up

10. What is the main function of the piston rings?

- A. To conduct heat from the piston to the cylinder wall
- B. To reduce friction between the piston and the cylinder wall
- C. To seal the combustion chamber
- D. To lubricate the piston

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Chapter 30

Multiple Choice Quiz A

Answer Key

1. D

2. A

3. B

4. D

5. A

6. C

7. D

8. C

9. B

10. C