

Name: _____ Date: _____

1. What is the major thrust side of a piston in a V-block engine rotating clockwise?

- A. The left bank piston thrust side faces the inside of the engine
- B. The right bank piston thrust side faces the outside of the block
- C. The left bank piston thrust side faces the outside of the engine
- D. The right bank piston thrust side faces the inside of the engine

2. What is the disadvantage of hypereutectic pistons?

- A. Lower expansion rate
- B. Less strength
- C. Higher cost
- D. Higher weight

3. Forged pistons are often used in:

- A. Turbocharged or supercharged engines
- B. Diesel engines
- C. Low-performance engines
- D. Electric vehicles

4. What is the purpose of ceramic-coated rings?

- A. To reduce friction
- B. To provide additional heat resistance
- C. To increase compression
- D. To improve aesthetics

5. What is the effect of increasing the second piston ring end gap?

- A. Increases oil consumption
- B. Prevents buildup of combustion gases
- C. Reduces engine efficiency
- D. Increases engine temperature

6. What is the role of circlips in piston design?

- A. To hold full-floating piston pins in place
- B. To seal the combustion chamber
- C. To reduce piston movement
- D. To control thermal expansion

7. What is a characteristic of forged pistons compared to cast pistons?

- A. Higher porosity
- B. Lower heat conduction
- C. Run cooler
- D. Less strength

8. What is the main benefit of scraper-type rings?

- A. Improved compression sealing
- B. Improved oil control
- C. Increased engine power
- D. Reduced engine noise

9. What happens when a piston pin "walks" off the center of the piston?

- A. It increases engine efficiency
- B. It improves oil control
- C. It reduces engine noise
- D. It causes scoring of the cylinder wall

10. What is the effect of a misaligned connecting rod on the engine?

- A. Increased fuel efficiency
- B. Improved engine balance
- C. Reduced engine noise
- D. Diagonal wear on the piston skirt

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Chapter 30

Multiple Choice Quiz B

Answer Key

1. A

2. C

3. A

4. B

5. B

6. A

7. C

8. B

9. D

10. D