

Automotive Engines 10th

Quiz 29B

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

1. The piston pin may also be called a _____ pin. 1. _____
 - A) swivel
 - B) wrist
 - C) barrel
 - D) flat

2. Cam ground pistons, as they warm up, take on which of these shapes? 2. _____
 - A) Oval
 - B) Round
 - C) Tapered
 - D) No change

3. Technician A says that replacement pistons can be of different weights from the original pistons. Technician B says that some engines use an offset piston pin to help reduce piston slap when the engine is cold. 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. Many aluminum piston skirts are plated with _____. 4. _____
 - A) tin or moly graphite
 - B) lead
 - C) antimony
 - D) terneplate

5. Piston ring gap should only be measured after _____. 5. _____
 - A) all cylinder work has been performed
 - B) installing the piston in the cylinder
 - C) installing the rings on the piston
 - D) Both A and C

6. A hypereutectic piston _____. 6. _____
 - A) uses about 16% silicon
 - B) is a cast piston
 - C) is a forged piston
 - D) Both A and B

7. When a piston ring is marked with a "dot", the ring is to be installed with the "dot" facing the _____. 7. _____
 - A) top of the piston
 - B) front of the piston
 - C) front of the engine
 - D) bottom of the piston

8. On newer engines the designers try to place the top piston ring as close to the top of the piston as possible. The reason for this is to _____. 8. _____
- A) reduce HC emissions
 - B) raise the compression ratio
 - C) protect the second piston ring
 - D) reduce the cost of the piston
9. A misaligned connecting rod causes what type of engine wear? 9. _____
- A) Cylinder taper
 - B) Barrel-shaped cylinders
 - C) Ridge wear
 - D) Diagonal wear on the piston skirt
10. The space behind the piston ring is called _____. 10. _____
- A) side clearance
 - B) forward clearance
 - C) back clearance
 - D) piston ring clearance

Answer Key

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1. B
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2. B
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3. B
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4. A
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5. A
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6. D
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7. A
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8. A
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9. D
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