

Name \_\_\_\_\_

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

- 1) A \_\_\_\_\_ is used to determine correct pushrod length. 1) \_\_\_\_\_  
A) Adjustable pushrod  
B) Feeler gauge  
C) Dial indicator  
D) Vernier caliper
- 2) When balancing a 4-cylinder engine, all of the following parts are needed, EXCEPT \_\_\_\_\_. 2) \_\_\_\_\_  
A) Crankshaft  
B) Damper  
C) Flywheel  
D) Valve springs
- 3) Pistons and connecting rods can be ground from what area when removing weight? 3) \_\_\_\_\_  
A) Balancing pad  
B) Weight bore  
C) Sides  
D) Thrust surface
- 4) Which of these are attached to the rod journals on V-type engines to simulate the weight of the rods and pistons? 4) \_\_\_\_\_  
A) Bob weights  
B) Counterbalances  
C) Pad weights  
D) Longer bolts
- 5) What process can be used to balance a crankshaft? 5) \_\_\_\_\_  
A) Material is welded onto the counterweight  
B) Heavy metal is used to increase the weight of the counterweight  
C) Material is drilled out of the counterweight  
D) Any of these may be used
- 6) An accurate setting for top dead center (TDC) can be found using a degree wheel and \_\_\_\_\_. 6) \_\_\_\_\_  
A) A piston stop  
B) A connecting rod brake  
C) Flywheel and block chisel marks  
D) Timing cover marks
- 7) Reciprocating weight is also called \_\_\_\_\_. 7) \_\_\_\_\_  
A) Balance weight  
B) Bob weight  
C) Rotating weight  
D) Inertial weight

8) The big end of the rod is considered to be \_\_\_\_\_. 8) \_\_\_\_\_  
A) Rotating weight  
B) Reciprocating weight  
C) Inertia weight  
D) Both A and B

9) A gram weighs about the same as a \_\_\_\_\_. 9) \_\_\_\_\_  
A) Paper clip  
B) Feather  
C) Penny  
D) Dime

10) Connecting rods should be weighed and balanced \_\_\_\_\_. 10) \_\_\_\_\_  
A) Never  
B) Before reconditioning  
C) After reconditioning  
D) At disassembly

## Answer Key

Testname: ENGINES9\_33B

1) A

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2) D

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3) A

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4) A

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5) D

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6) A

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7) D

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8) A

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9) A

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10) C

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