Automotive Engines 10th

Quiz 33B

IPLE CHOICE. Choose the one alternative that best completes the statement or answers the ques	CHOICE. Choose the one alternative that best completes the statement or answers the question.	
1. Blueprinting is a process that	1.	
A) uses factory-only specifications		
B) uses the parts manufacturer's recommended specification for many of the critical clearances		
C) includes identifying the use of the engine and the vehicle it is going to be used in D) Both B and C		
2. Combustion chamber volume is measured using a fluid and what unit of measure?	2.	
A) Cubic inches (in. ³)		
B) Cubic centimeters (cc)		
C) Liters (L)		
D) Ounces (oz.)		
3. When balancing a 4-cylinder engine, all of the following parts are needed, EXCEPT	3.	
A) crankshaft		
B) damper		
C) flywheel		
D) valve springs		
4. An accurate setting for top dead center (TDC) can be found using a degree wheel and	4.	
A) a piston stop		
B) a connecting rod brake		
C) flywheel and block chisel marks		
D) timing cover marks		
5. Reciprocating weight is also called	5.	
A) balance weight		
B) bob weight		
C) rotating weight		
D) inertial weight		
6. What process can be used to balance a crankshaft?	6.	
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		
7. A balancing factor is a formula used to determine what percentage of the reciprocating weight	7.	
needs to be included in the bob weight. This is usually		
A) 10%		
B) cord		

- B) 20%
- C) 40%
- D) 50%

- 8. Technician A says that material is drilled out of the counterweight to balance a crankshaft. Technician B says that only rotating weight is considered during the balancing procedure. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 9. The setup in this illustration is used to measure _____.

9. _____

8.



A) Valve air flow

- B) Combustion chamber volume
- C) Cylinder head thickness
- D) Spark plug bore diameter

10. The bob weight must equal weight of the oil between the journal and bearing, plus the _____. 10. _____

A) weight of all the pistons

B) rotating weight

C) a percentage of the reciprocating weight

D) Both B and C

Answer Key Testname: ENGINES 10 33B

- 1. D
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- 2. B Page Ref: 475
- 3. D Page Ref: 471
- 4. A
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- 5. D

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6. D

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7. D

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8. A

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9. B

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10. D

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