

## *Automotive Engines 10th*

### **Quiz 31B**

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

1. In \_\_\_\_\_ engines, the cam bearings are installed in the block. 1. \_\_\_\_\_  
A) overhead cam  
B) rotary  
C) two-stroke  
D) pushrod
  
2. The crankshaft journals have been turned. What size bearings should be installed? 2. \_\_\_\_\_  
A) Standard  
B) Oversize  
C) Undersize  
D) It makes no difference which size is installed
  
3. Bearing \_\_\_\_\_ occurs when a bearing shell is slightly above the parting surface of the bearing cap. 3. \_\_\_\_\_  
A) overlap  
B) crush  
C) cap lock  
D) interference fit
  
4. Crankshaft journals are checked for which of these? 4. \_\_\_\_\_  
A) Out of Round  
B) Taper  
C) Both A and B  
D) Neither A nor B
  
5. A bearing shell has a lightly larger arc than the bearing housing. This difference is called \_\_\_\_\_ 5. \_\_\_\_\_  
A) bearing crush  
B) bearing tang  
C) bearing spread  
D) bearing saddle
  
6. A balance shaft used in a 90-degree V-6 engine is used to correct which of these types of force? 6. \_\_\_\_\_  
A) Primary vibration  
B) Secondary vibration  
C) Rocking couple  
D) Rolling couple
  
7. Technician A says that most crankshafts can be reground to be 0.010, 0.020, or 0.030 inch undersize. Technician B says that most engine bearings are constructed with an aluminum shell for strength and are covered with a tin-lead alloy. Which technician is correct? 7. \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians A and B  
D) Neither technician A nor B

8. If bearing-to-journal clearance is doubled, how much oil will flow from the bearing edges? 8. \_\_\_\_\_
- A) One-half as much
  - B) The same amount if the pressure is kept constant
  - C) Double the amount
  - D) Four times the amount
9. The crankshaft is supported in the engine block by the \_\_\_\_\_. 9. \_\_\_\_\_
- A) rod bearings
  - B) flywheel
  - C) thrust plates
  - D) main bearings
10. Technician A says that many bearings have a thin overlay of babbitt. Technician B says that bearings should have spread and crush to keep them from spinning when the crankshaft rotates. Which technician is correct? 10. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

## Answer Key

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