

Name \_\_\_\_\_

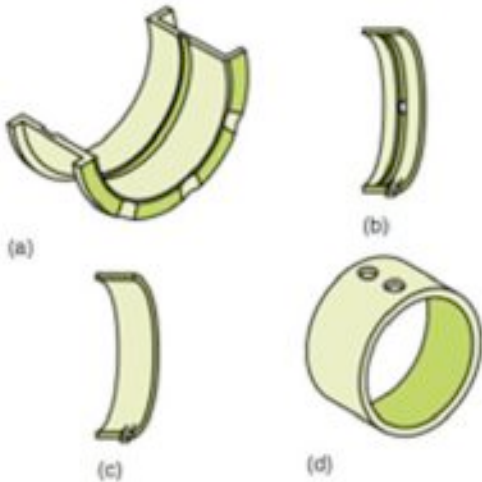
**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

1) A splayed crankshaft is a crankshaft that \_\_\_\_\_. 1) \_\_\_\_\_  
A) is externally balanced  
B) is internally balanced  
C) has offset main bearing journals  
D) has offset rod journals

2) If any crankshaft is ground, it must also be \_\_\_\_\_. 2) \_\_\_\_\_  
A) shot peened  
B) chrome plated  
C) polished  
D) externally balanced

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) Which one of these is a thrust bearing? 4) \_\_\_\_\_



- A) a
- B) b
- C) c
- D) d

- 5) The thrust bearing surface is located on one of the main bearings to control thrust loads caused by \_\_\_\_\_. 5) \_\_\_\_\_  
A) lugging the engine  
B) torque converter or clutch release forces  
C) rapid deceleration forces  
D) Both A and C
- 6) A four-cylinder engine fires one cylinder at every \_\_\_\_\_ degrees of crankshaft rotation. 6) \_\_\_\_\_  
A) 270  
B) 180  
C) 120  
D) 90
- 7) Which of the following is a primary cause of secondary vibrations in an engine? 7) \_\_\_\_\_  
A) Harmonic balancer  
B) Pistons  
C) Flexplate  
D) Connecting rod big ends
- 8) A typical V-8 engine crankshaft has \_\_\_\_\_ main bearings. 8) \_\_\_\_\_  
A) three  
B) four  
C) five  
D) seven
- 9) The crankshaft journals have been turned. What size bearings should be installed? 9) \_\_\_\_\_  
A) Standard  
B) Oversize  
C) Undersize  
D) It makes no difference which size is installed
- 10) A balance shaft used in a 90-degree V-6 engine is used to correct which of these types of force? 10) \_\_\_\_\_  
A) Primary vibration  
B) Secondary vibration  
C) Rocking couple  
D) Rolling couple

## Answer Key

Testname: AT6\_35B

1) D

Page Ref: 399

2) C

Page Ref: 395, 403

3) B

Page Ref: 408

4) A

Page Ref: 406

5) B

Page Ref: 395

6) B

Page Ref: 398

7) B

Page Ref: 401

8) C

Page Ref: 395

9) C

Page Ref: 406

10) C

Page Ref: 402