

Automotive Engines 10th

Quiz 31A

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. Technician A says that a vibration damper, also known as a harmonic balancer, is used to dampen harmful twisting vibrations of the crankshaft. Technician B says that most engines are externally balanced. Which technician is correct? 2. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

3. The thrust bearing surface is located on one of the main bearings to control thrust loads caused by _____. 3. _____
 - A) lugging the engine
 - B) torque converter or clutch release forces
 - C) rapid deceleration forces
 - D) Both A and C

4. Technician A says balance shafts are used to counteract vibration created in the engine. Technician B says proper balancing of the engine is important for smooth operation. Which technician is correct? 4. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

5. Bearing _____ occurs when a bearing shell is slightly above the parting surface of the bearing cap. 5. _____
 - A) overlap
 - B) crush
 - C) cap lock
 - D) interference fit

6. Crankshafts should be stored by which of these methods? 6. _____
 - A) Any position
 - B) Standing or hanging
 - C) Standing or lying on its side
 - D) Leaning at a slight angle

7. If bearing-to-journal clearance is doubled, how much oil will flow from the bearing edges? 7. _____
 - A) One-half as much
 - B) The same amount if the pressure is kept constant
 - C) Double the amount
 - D) Four times the amount

8. Which of the following is NOT true of a fully counter-weighted crankshaft? 8. _____
A) It is the smoothest running type.
B) It is the most durable design.
C) It is the least expensive to manufacture.
D) It is the heaviest type.

9. A forged crankshaft has a _____. 9. _____
A) wide parting line
B) thin parting line
C) parting line in one place
D) Both B and C

10. If any crankshaft is ground, it must also be _____. 10. _____
A) shot peened
B) chrome plated
C) polished
D) externally balanced

Answer Key

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