

Name: _____

Date: _____

1. What component of the engine delivers power from the expanding gases in the combustion chamber to the crankshaft?

- A. Camshaft
- B. Piston
- C. Flywheel
- D. Turbine

2. How is the engine stroke determined?

- A. By the diameter of the crankshaft.
- B. By the length of the piston.
- C. By the number of cylinders.
- D. By multiplying the distance between the centerlines of the connecting rod bearing journal and the crankshaft main bearing journal by 2.

3. The crankshaft rotates in what component of the engine?

- A. Piston cylinder
- B. Camshaft bearing
- C. Cylinder block
- D. Transmission housing

4. Which of the following best describes the purpose of the main bearings?

- A. To support the crankshaft and allow it to rotate easily without excessive wear.
- B. To increase the weight of the crankshaft.
- C. To provide lubrication to the crankshaft.
- D. To transfer heat from the crankshaft to the engine block.

5. How many main bearings do V-6 engines normally have?

- A. Three
- B. Four
- C. Five
- D. Seven

6. What is the function of the crankshaft throw offset?

- A. To balance the weight of the engine.
- B. To control the vibration of the engine.
- C. To measure one-half of the stroke.
- D. To facilitate the mounting of the flywheel.

7. Which process involves heating the crankshaft to about 1,600°F in a furnace filled with ammonia gas?

- A. Tuftriding
- B. Case hardening
- C. Electroplating
- D. Nitriding

8. What type of loads push and pull the crankshaft forward and rearward in the engine block?

- A. Radial loads
- B. Thrust loads
- C. Vertical loads
- D. Rotational loads

9. Where is the thrust surface usually located on many engines?

- A. On the front main bearing.
- B. On the rear main bearing.
- C. At the middle or one of the end main bearings.
- D. On the flywheel flange.

10. What is another name for rod bearing journals in relation to the crankshaft?

- A. Crank cheeks
- B. Crankpins
- C. Main journals
- D. Flywheel journals

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Chapter 32

Multiple Choice Quiz A

Answer Key

1. B

2. D

3. C

4. A

5. B

6. C

7. D

8. B

9. C

10. B