Automotive Technology 7th Edition
Chapter 28
Multiple Choice Quiz A

Name: _____ Date: _____

1. What primarily defines the purpose and function of the camshaft in an engine?
A. To provide lubrication to the engine components.
B. To control the opening and closing of the engine's intake and exhaust valves.
C. To facilitate fuel injection into the combustion chamber.
D. To support the pistons during their movement.

2. Which of the following best describes "Camshaft duration"?
A. The time taken for a camshaft to complete one rotation.
B. The lifespan of a camshaft before it needs replacement.
C. The number of degrees the crankshaft rotates while the valve is off the valve seat.
D. The delay between the intake and exhaust valve operations.

3. What is the primary role of "Camshaft bearings"?
A. To help the camshaft rotate at double the crankshaft's speed.
B. To provide a smooth surface for the camshaft to rotate without friction.
C. To support the weight of the engine block.
D. To help in the fuel injection process.

4. Which term refers to a camshaft design where the camshaft is located within the engine block?
A. Overhead camshaft.
B. Dual overhead camshaft.
C. Cam-in-block.
D. Composite camshaft.

5. In the context of valve trains, what does the term "Bucket" refer to?
A. A type of tappet used in overhead camshaft engines.
B. A component that collects excess engine oil.
C. The storage area for unused fuel.
D. A protective covering for the camshaft.

6. What distinguishes an "Asymmetrical" camshaft design?
A. It has cams of uniform sizes.
B. The opening and closing ramps of the cam lobe have different profiles.
C. It can only control either the intake or exhaust valves but not both.
D. It lacks a cam bearing.

7. Which camshaft design involves the use of two camshafts per cylinder head?
A. Single overhead camshaft.
B. Cam-in-block.
C. Dual overhead camshaft (DOHC)
D. Composite camshaft.

8. What is "Cam chucking"?
A. It's a method of camshaft lubrication.
B. It refers to the process of installing a camshaft.
C. It's a technique to diagnose camshaft problems.
D. Movement of the camshaft lengthwise in the engine.

9. Why is the term "Freewheeling engine" significant in the context of camshafts?
A. It denotes an engine that operates without a camshaft.
B. It refers to an engine where the camshaft can rotate freely without any resistance.
C. It indicates an engine that will not be damaged if the timing chain or belt breaks.
D. It represents an engine with a unique camshaft design for higher performance.

10. What role does "Aerated" play in the context of camshafts and valve trains?
A. It refers to the introduction of air into the fuel for better combustion.
B. It denotes the process of cooling the camshaft using air.
C. It indicates the presence of air bubbles in the engine oil, which can reduce lubrication efficiency.
D. It describes a camshaft design optimized for air intake.

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Answer Key

1. B

2. C

3. B

4. C

5. A

6. B

7. C

8. D

9. C

10. C