

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. Which of the following best describes the primary purpose of gaskets and sealants in engines?
  - A. To provide structural strength.
  - B. To seal gaps and potential gaps between two or more parts.
  - C. To reduce engine noise.
  - D. To improve engine aesthetics.
  
2. Which factor must gaskets and sealants be able to withstand?
  - A. Exposure to high altitudes.
  - B. Exposure to sunlight.
  - C. Exposure to saltwater.
  - D. Vibrations produced in the engine and the attached accessories.
  
3. Why do gaskets and sealants need to expand and contract?
  - A. To seal even when engine parts expand and contract at different rates during temperature changes.
  - B. To adapt to changing engine sizes.
  - C. To accommodate changing fuel types.
  - D. To adjust to changing air pressure.
  
4. Which of the following best describes the most demanding job of the head gasket?
  - A. To seal the oil pan.
  - B. To seal the combustion chamber.
  - C. To seal the coolant reservoir.
  - D. To seal the air intake manifold.
  
5. What percentage of the head bolt clamping force is typically exerted on the head gasket?
  - A. 25%
  - B. 50%
  - C. 75%
  - D. 100%
  
6. Which type of gasket is designed to be formed directly on the parts to be sealed?
  - A. Armor gasket
  - B. No-retorque-type gasket
  - C. Formed in place gaskets (FIPG)
  - D. Rubber-coated metal (RCM) gasket
  
7. Which type of sealant hardens at room temperature?
  - A. Anaerobic sealer
  - B. Fire ring
  - C. Room-temperature vulcanization (RTV)
  - D. Multilayered steel (MLS) gasket

8. Which type of gasket is specifically designed to seal combustion chambers?

- A. Fire ring
- B. Armor
- C. Rubber-coated metal (RCM) gasket
- D. Multilayered steel (MLS) gasket

9. What do gaskets and sealants need to resist in an engine environment?

- A. Dust and pollen
- B. Acids and other chemicals
- C. Rain and moisture
- D. UV radiation

10. Which type of gasket is known for not needing re-torquing after installation?

- A. Fire ring
- B. Armor
- C. No-retorque-type gaskets
- D. Multilayered steel (MLS) gasket

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Chapter 33

Multiple Choice Quiz A

Answer Key

1. B

2. D

3. A

4. B

5. C

6. C

7. C

8. A

9. B

10. C