

Automotive Technology 7<sup>th</sup> Edition  
Chapter 33: Gaskets and Sealants  
Short Answer Quiz

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

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

1. Explain the significance of using robots in applying Formed In Place Gaskets (FIPG) at engine plants.

---

---

---

---

2. Why are nylon-reinforced bodies used in most intake manifold gaskets, and what benefits do they offer?

---

---

---

---

3. Discuss the key attributes required in a gasket for effective sealing.

---

---

---

---

4. What are the unique properties of cork that made it a popular choice for gaskets in older engines?

---

---

---

---

5. Describe the composition and common applications of Rubber-Coated Metal (RCM) gaskets.

---

---

---

---

Automotive Technology 7<sup>th</sup> Edition  
Chapter 33: Gaskets and Sealants  
Short Answer Quiz

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

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

6. What challenges can arise due to the differential expansion and contraction of different engine materials, and how does it affect gasket performance?

---

---

---

---

7. Why might a head gasket fail due to detonation, and what are the implications on the gasket's armor?

---

---

---

---

8. How can a plugged PCV system lead to engine gasket failures?

---

---

---

---

9. Define "fretting" in the context of intake manifold gaskets, and explain its impact on gasket integrity.

---

---

---

---

10. What is the primary function of oil seals in relation to engine shafts?

---

---

---

---