

Automotive Technology 7th Edition
Chapter 47: Automotive 12-Volt Batteries
Short Answer Quiz

Name:

Date:

1. Describe the Enhanced Flooded Battery (EFB) and its optimization for stop/start vehicle systems.
2. Explain the principle behind the statement: "When two dissimilar metals are placed in an acid, electrons flow between the metals if a circuit is connected between them."
3. Detail the composition of a fully charged lead–acid battery and the potential difference between its plates.
4. What is the significance of the specific gravity of the electrolyte in a battery, and how does it relate to the battery's charge state?
5. Describe the characteristics and applications of an Enhanced Flooded Battery (EFB).

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6. Explain the structure and function of an Absorbed Glass Mat (AGM) battery. How does it differ from conventional batteries?

7. What is battery sulfation, and why is it detrimental to battery health?

8. Discuss the importance of the charging voltage for a battery and the potential risks of overcharging.

9. Describe the purpose and function of a battery hold-down bracket?

10. Explain the concept of specific gravity in the context of battery acid and its significance in determining the battery's state of charge.