

SECTION

3

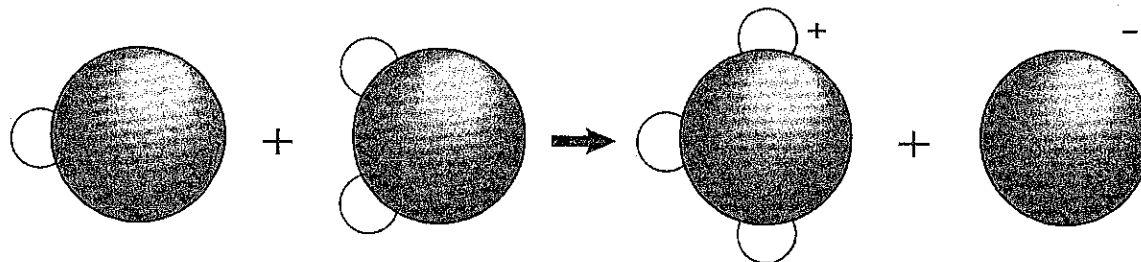
Study Guide

Acidic and Basic Solutions

Chapter

3

Directions: Use the diagram below to answer questions 1 through 5.



Directions: Look at the left side of the diagram.

1. What common substance is a three-atom molecule like the one in this illustration?

Directions: Look at the right side of the diagram.

2. Explain what has happened to the two-atom molecule.
- _____
3. Identify the four-atom ion formed if the ion from the two-atom molecule is a hydrogen ion.
- _____
4. What kind of solution—acid or basic—has been produced?
- _____
5. Will this solution conduct electricity? Why or why not?
- _____

Directions: Answer the following questions on the lines provided.

6. List three properties of acidic solutions.
- _____
7. List three properties of basic solutions.
- _____
8. Which ion increases in concentration when a strong acid is added to water?
- _____
9. Which ion increases in concentration when a strong base is added to water?
- _____
10. How are the relative strengths of acids and bases compared?
- _____
11. Name the process that occurs when you drop an antacid tablet into a glass of lemonade.
- _____