

Neutralization in Everyday Life

A. Choose the Correct Answer:

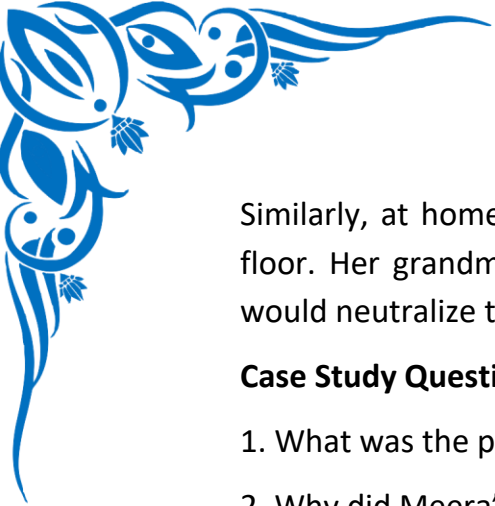
- 1. What is the purpose of using antacids in daily life?**
 - A) To increase stomach acidity
 - B) To neutralize excess stomach acid
 - C) To cause indigestion
 - D) To add flavor to food
- 2. Which of the following substances is used to neutralize acidic soil in agriculture?**
 - A) Vinegar
 - B) Lime (Calcium hydroxide)
 - C) Sugar
 - D) Baking soda
- 3. A bee sting injects acidic venom. Which household substance can be applied to reduce its effect?**
 - A) Vinegar
 - B) Baking soda
 - C) Lemon juice
 - D) Salt water

B. Fill in the Blanks:

1. When we suffer from acidity, doctors recommend _____ to neutralize the excess acid in our stomach.
2. Farmers add _____ to soil to neutralize excessive acidity and improve crop growth.
3. A wasp sting is _____ in nature, so applying vinegar helps in neutralizing its effect.

C. Case Study:

Ravi, a farmer, noticed that his crop yield was declining despite regular watering and fertilization. He consulted an agricultural expert who tested the soil and found it to be highly acidic. The expert advised Ravi to mix lime powder with the soil to neutralize its acidity. After following the advice, Ravi observed a significant improvement in the growth of his crops.



Similarly, at home, Meera accidentally spilled some strong cleaning acid on the floor. Her grandmother quickly sprinkled baking soda over it, explaining that it would neutralize the acid and make it safe to clean.

Case Study Questions:

1. What was the problem Ravi faced with his crops, and how was it solved?
2. Why did Meera's grandmother use baking soda to neutralize the cleaning acid?
3. Explain how neutralization plays a role in both agriculture and household cleaning.
4. What would happen if Ravi had not neutralized the soil acidity?

D. Short Answer Questions:

1. What is neutralization?
2. Give two examples of neutralization reactions in daily life.
3. Why is lime added to acidic soil?

E. Long Answer Questions:

1. Explain the concept of neutralization with examples from everyday life.
2. Discuss how neutralization reactions help in maintaining environmental balance, such as in agriculture and waste management.
3. Describe how neutralization is used in medical treatments and personal care products.