## Salt

1. What is the chemical formu	lla of common salt?
A) NaCl	B) KCl
C) CaCO₃	D) MgSO₄
2. Which type of salt is used in	n baking to make cakes and bread rise?
A) Sodium chloride	B) Sodium bicarbonate
C) Potassium nitrate	D) Ammonium chloride
3. Which of the following is an	n acidic salt?
A) Sodium carbonate	B) Sodium chloride
C) Ammonium sulfate	D) Calcium chloride
4. What is the pH value of a n	eutral salt solution?
A) Less than 7	B) Exactly 7
C) Greater than 7	D) It depends on the salt
5. Epsom salt is commonly u name?	sed for medicinal purposes. What is its chemic
A) Magnesium chloride	B) Magnesium sulfate
C) Sodium sulfate	D) Potassium chloride
Fill in the Blanks:	
1. The salt used in the preserv	ation of food is
2. The pH of a basic salt is	than 7.
3. is a salt used in	fertilizers to provide essential nutrients to plants
	hardness of water is
4. The salt responsible for the	

A chemistry teacher, Mr. Sharma, conducted an experiment to demonstrate the effect of different salts on water. He took three beakers filled with distilled water and added the following salts:

- Beaker A: Sodium chloride (table salt)
- Beaker B: Sodium bicarbonate (baking soda)
- Beaker C: Ammonium chloride

After stirring, he measured the pH of each solution and observed the following:

- Beaker A had a neutral pH of 7.
- Beaker B had a pH greater than 7, indicating a basic solution.
- Beaker C had a pH less than 7, indicating an acidic solution.

## **Case Study Questions:**

- 1. What was the purpose of Mr. Sharma's experiment?
- 2. Why did Beaker B have a pH greater than 7?
- 3. What property of ammonium chloride caused the solution in Beaker C to become acidic?
- 4. Based on this experiment, explain how different salts can affect the pH of a solution.

## **D. Short Answer Questions:**

- 1. What are salts and how are they formed?
- 2. Why is common salt (NaCl) essential for the human body?
- 3. What is the difference between acidic, basic, and neutral salts?

## E. Long Answer Questions:

- 1. Explain the process of neutralization and how it leads to the formation of salts. Give examples.
- 2. Discuss the role of salts in daily life, including their uses in food, medicine, and industry.
- 3. How does the excessive consumption of salt affect human health? Suggest ways to regulate salt intake in a diet.