

Salts: Properties and Uses



Multiple Choice Questions (MCQs)

Common Salt (Sodium Chloride, NaCl)

1. What is the chemical formula of common salt?
 - A) NaHCO_3
 - B) NaCl
 - C) Na_2CO_3
 - D) CaSO_4
2. Which of the following is a primary method for obtaining common salt?
 - A) Mining rock salt deposits
 - B) Electrolysis of water
 - C) Precipitation reaction
 - D) Distillation
3. Common salt is used in the preparation of:
 - A) Sodium hydroxide
 - B) Sodium carbonate
 - C) Both A and B
 - D) Sodium bicarbonate

Bleaching Powder (Calcium Oxychloride, $\text{Ca}(\text{OCl})_2$)

4. What is the chemical name of bleaching powder?
 - A) Calcium bicarbonate
 - B) Calcium oxide
 - C) Calcium oxychloride
 - D) Calcium carbonate
5. Bleaching powder is produced by passing chlorine gas through:
 - A) Dry calcium oxide
 - B) Dry slaked lime
 - C) Wet slaked lime
 - D) Sodium hydroxide
6. One of the uses of bleaching powder is:
 - A) Baking
 - B) Bleaching in the textile industry

- C) Preparing glass
- D) Making cement

Baking Soda (Sodium Bicarbonate, NaHCO_3)

7. The formula of baking soda is:

- A) NaHCO_3
- B) Na_2CO_3
- C) NaCl
- D) CaCO_3

8. Baking soda is prepared by saturating a solution of sodium carbonate with:

- A) Oxygen
- B) Carbon monoxide
- C) Carbon dioxide
- D) Nitrogen

9. Which of the following is NOT a use of baking soda?

- A) Leavening agent in baking
- B) Mild antiseptic
- C) Fire extinguisher component
- D) Bleaching agent

Washing Soda (Sodium Carbonate Decahydrate, $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$)

10. What is the chemical formula of washing soda?

- A) NaHCO_3
- B) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
- C) NaCl
- D) $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$

11. Washing soda is obtained by heating:

- A) Baking soda
- B) Common salt
- C) Bleaching powder
- D) Plaster of paris

12. One of the uses of washing soda is:

- A) As a leavening agent
- B) In the glass industry
- C) As a mild antiseptic
- D) In the preparation of plaster of paris

Plaster of Paris (Calcium Sulphate Hemihydrate, $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$)

13. The chemical name of plaster of paris is:

- A) Calcium carbonate
- B) Calcium sulphate hemihydrate
- C) Sodium bicarbonate
- D) Sodium carbonate decahydrate

14. Plaster of paris is produced by heating gypsum to:

- A) 273 K
- B) 373 K
- C) 473 K
- D) 573 K

15. Plaster of paris is used in:

- A) Making baking soda
- B) Immobilizing fractures
- C) Water treatment
- D) Textile industry

Answer Key

1. B) NaCl
2. A) Mining rock salt deposits
3. C) Both A and B
4. C) Calcium oxychloride
5. B) Dry slaked lime
6. B) Bleaching in the textile industry
7. A) NaHCO_3
8. C) Carbon dioxide
9. D) Bleaching agent
10. B) $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$
11. A) Baking soda
12. B) In the glass industry
13. B) Calcium sulphate hemihydrate
14. B) 373 K
15. B) Immobilizing fractures