

## Acids, Bases, and Salts – Class X – Paper Set 2

- Which substance is added to soil to increase its pH if it's too acidic?
  - Lime (Calcium oxide)
  - Sodium chloride
  - Vinegar
  - Baking soda
- What is the pH value of a neutral solution?
  - 0
  - 7
  - 14
  - 1
- Which of the following is a property of bases?
  - Sour taste
  - Turns red litmus blue
  - Turns blue litmus red
  - Produces hydrogen gas with metals
- What is the chemical formula of Plaster of Paris?
  - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
  - $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
  - $\text{CaCO}_3$
  - $\text{Ca}(\text{OH})_2$
- Which one of the following solutions will have the highest pH?
  - Lemon juice
  - Distilled water
  - Soap solution
  - Vinegar
- Which of the following acids is present in vinegar?
  - Citric acid
  - Acetic acid
  - Lactic acid
  - Tartaric acid
- What is produced when sodium bicarbonate reacts with an acid?
  - Sodium hydroxide
  - Carbon dioxide
  - Oxygen
  - Chlorine

8. Which of the following salts is formed by hydrochloric acid and sodium hydroxide?

(a) Sodium carbonate (b) Sodium chloride

(c) Sodium sulphate (d) Sodium nitrate

9. The process of dissolving an acid or a base in water is called:

(a) Neutralization (b) Dilution

(c) Decomposition (d) Evaporation

10. Which compound is commonly used to treat acidity in the stomach?

(a) Sodium chloride (b) Magnesium hydroxide

(c) Calcium sulphate (d) Sodium carbonate

**Answers for Paper Set 2:**

1. (a), 2. (b), 3. (b), 4. (b), 5. (c), 6. (b), 7. (b), 8. (b), 9. (b), 10. (b)