

Chemistry Worksheet Grade X
Acids, Bases and Salts

1. Name the gas evolved when dilute HCl reacts with Sodium hydrogen carbonate. How is it recognized?
2. Name the acid presents in the following:
 - a. Tomato
 - b. Vinegar
 - c. Ant sting
 - d. Tamarind
3. How does the flow of acid rain water into a river make the survival of aquatic life in the river difficult?
4. Name the salt which does not contain water of crystallization.
5. How is the pH of a solution of an acid influenced when it is diluted?
6. Name the gas which is liberated when an acid reacts with a metal. Illustrate with an example. How will you test the presence of this gas?
7. How does the pH of the solution change when a solution of base is diluted?
8. Dry HCl gas does not change the colour of dry blue litmus paper. Give reasons.
9. Arrange these in increasing order of their pH values:
 - a. NaOH
 - b. Blood
 - c. Lemon juice
10. Name the sodium compound which is used for softening hard water.
11. Two solutions of A and B have pH values of 5 and 8. Which solution will be basic in nature?
12. Why does tooth decay start when pH of mouth is lower than 5.5?
13. A milkman added a small amount of baking soda to fresh milk:
 - a. Why does he shift the pH of fresh milk to slightly alkaline?
 - b. Why does this milk take longer time to set as a curd?
14. What would be the colour of litmus in a solution of sodium carbonate?
15. What would be the colour of the solution when copper oxide and dilute hydrochloric acid are mixed?
16. What happens when chloride of lime reacts with sulphuric acid? Write chemical reaction involved?
17. How can plaster of paris be converted into gypsum? List any two uses of plaster of paris.
18. Give suitable reasons for the following statements
 - a. Rain water conducts electricity but distilled water does not.
 - b. We feel burning sensation in the stomach when we overeat.
 - c. A tarnished copper vessel regains its shine when rubbed with lemon.
 - d. The crystals of washing soda change to white powder on exposure to air.
 - e. An aqueous solution of sodium chloride is neutral but an aqueous solution of sodium carbonate is basic.