

National Institute of Open Schooling
Secondary Course: Science and Technology
Lesson 8- Acids, Bases and Salts
Worksheet-8

1. Name the scientist who first classified acid and bases on their physical structure and how did they again get classified on the basis of their chemical structure? Give reason in support of your answer.
2. What changes would you observe by testing soap with litmus paper?
3. Name the acid which is present in the following items.
Gastric juice, soft drinks, tea, vinegar, lemon juice, sour milk, milk of magnesia.
4. What happen when sulphuric acid is dissolved in water?
5. Explain the process of self-dissociation of water.
6. Calculate the pH of 1.0×10^{-5} molar solution of HNO_3 .
7. The chemical formula of a substance is $2\text{CaSO}_4 \cdot 4\text{H}_2\text{O}$. What is the commercial and common name of this substance? Mention its uses.
8. Baking soda is manufactured by Solvey's process. Explain the process and its uses.
9. Are you suffering from tooth decaying problem? If yes, give reasons in support of your answer.
10. How does bleaching powder sterilize water?