

WORKSHEET

CLASS - VII

SUBJECT- Science

CHAPTER- 4, Acids, Bases and Salts

A. Fill in the blanks.

1. _____ taste sour and are found in lemon, _____ & _____.
2. _____ is an indicator that turns pink in a basic medium.
3. Bees and wasp sting causes pain because it contains _____ acid.
4. Salts of nitric acid (HNO₃) are named as _____.
5. Sodium acetate is a _____ salt as it is formed by reaction of a weak acid and a strong base.

B. Write true or false.

1. Mineral acids are formed from the minerals present in the earth. ____.
2. Salts of acetic acid are called sulphates. _____.
3. Solutions of salts in water can conduct electricity. _____.
4. Alkalies are bases which are soluble in water. _____.
5. Acetic acid is a mineral acid. _____.

C. Match the following.

- | | |
|-----------------|----------------|
| 1. Citric acid. | Sodium acetate |
| 2. Nitric acid. | Mild base |
| 3. Basic salt | Organic acid |
| 4. Litmus paper | Mineral acid |
| 5. Antacid. | Indicator |

D. Answer the following briefly.

1. Name some vegetables and fruits that contain organic acids.
2. Differentiate between strong and weak acids with examples.
3. What are acids made in the factories called?
4. Explain how an antacid works.
5. _____ + H₂SO₄ _____ → K₂SO₄ + _____

E. Answer the following.

1. Differentiate between.
 - a. Acidic salts and basic salts
 - b. Bases and alkalies
2. Complete -
NaOH + _____ → NaCl + _____.
3. Name two indicators and explain how are they used to test acids & bases.
4. How is acid rain formed and how is it harmful?

5. Write an activity to show that a salt solution is a good conductor.

F. Pick the correct option.

1. Salts of HCl are
 - a. Chlorides
 - b. Sulphates
 - c. Sulphites
 - d. None
2. Examples of neutral salts are
 - a. NaCl
 - b. KCl
 - c. KNO_3
 - d. All of above
3. These can be used as natural indicators
 - a. Turmeric
 - b. China rose petals
 - c. Spirit
 - d. Both a & b
4. Blue litmus will change to red in
 - a. Lemon juice
 - b. Orange juice
 - c. Vinegar
 - d. All of above
5. Which of these are alkali?
 - a. NaOH
 - b. KOH
 - c. Both a & b
 - d. None
6. Which of these are acidic salts?
 - a. AlCl_3
 - b. ZnSO_4
 - c. CuCl_2
 - d. All of these
7. _____ is a basic salt.
 - a. Sodium acetate
 - b. Sodium hydroxide
 - c. Both a & b
 - d. Neither a nor b
8. Colour of litmus will change from red to blue in
 - a. Sodium acetate
 - b. Sodium hydroxide
 - c. HCl
 - d. Both a & b
9. Salts of carbonic acid are called
 - a. Acetates
 - b. Sulphates

- c. Carbonates
 - d. None of these
10. Soap solution will change — litmus to —.
- a. Blue to red
 - b. Red to blue
 - c. No change
 - d. Dark pink to green.

G. Time to test and be a scientist in your Home lab.:

Learn to prepare an indicator each from Hibiscus petals and from turmeric. Use them to test on lemon juice and soap solution separately and write your conclusion in the note book.