

MAHESH PUBLIC SCHOOL, JODHPUR

WORKSHEET - 2

CLASS X

Subject : SCIENCE

Chapter : Acids Bases and Salts

MCQ's:

- Which one of the following is acidic?
(a) Lemon juice (b) Tomatoes (c) Milk (d) All
- Which one of the following will turn red litmus blue?
(a) Vinegar (b) Baking soda solution (c) Lemon juice (d) Soft drinks
- Which one of the following will turn blue litmus red?
(a) Vinegar (b) Lime water (c) Baking soda solution (d) Washing soda solution
- Methyl orange is
(a) Pink in acidic medium, yellow in basic medium
(b) Yellow in acidic medium, pink in basic medium
(c) Colourless in acidic medium, pink in basic medium
(d) Pink in acidic medium, colourless in basic medium.
- Lime water is
(a) CaO (b) Ca(OH)₂ (c) CaCO₃ (d) CaCl₂

FILL IN THE BLANKS:

- Binary acid contain _____ atom.
- Chemical formula of baking soda is _____
- An acid that contains more than one acidic hydrogen atom is called a _____ .
- When an acid reacts with a metal, _____ gas is evolved and a corresponding _____ is formed.
- When an acid reacts with a metal carbonate or metal hydrogencarbonate, it gives the corresponding salt, _____ gas and _____.

SHORT ANSWERS:

1. How will you test for a gas which is liberated when HCL reacts with an active metal?
2. What is baking powder? How does it make the cake soft and spongy?
3. When fresh milk is changed into curd will its pH value increase or decrease?
Why?
4. Give Arrhenius definition of an acid and a base.
5. What happens chemically when quick lime is added to water?
6. Name the gas evolved when dilute HCL reacts with Sodium hydrogen carbonate.
How is it recognized?
7. How does the flow of acid rain water into a river make the survival of aquatic life in the river difficult?
8. How is the pH of a solution of an acid influenced when it is diluted?
9. How does the pH of the solution change when a solution of base is diluted?
10. Arrange these in increasing order of their pH values- NaOH, blood, lemon juice.