

CHEMISTRY STUDY MATERIALS FOR CLASS 10

(NCERT Based: MCQ of Chapter -02)

GANESH KUMAR

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Acids, Bases and Salts

Choose the correct option:

1. What happens when a solution of an acid is mixed with a solution of a base in a test tube?
(i) The temperature of the solution increases
(ii) The temperature of the solution decreases
(iii) The temperature of the solution remains the same
(iv) Salt formation takes place
(a) (i) only (b) (i) and (iii) (c) (ii) and (iii) **(d) (i) and (iv)**
2. An aqueous solution turns red litmus solution blue. Excess addition of which of the following solution would reverse the change?
(a) Baking powder (b) Lime
(c) Ammonium hydroxide solution **(d) Hydrochloric acid**
3. The colour of methyl orange indicator in acidic medium is:
(a) Yellow (b) green (c) orange **(d) red**
4. The colour of phenolphthalein indicator in basic solution is:
(a) Yellow (b) green **(c) pink** (d) orange
5. What is the colour methyl orange in alkaline medium?
(a) orange **(b) yellow** (c) red (d) blue
6. A solution turns red litmus blue, its pH will be:
(a) 1 (b) 4 (c) 5 **(d) 10**
7. A solution reacts with crushed egg-shells to give a gas that turns lime-water Milky, the solution contains:
(a) NaCl **(b) HCl** (c) LiCl (d) KCl
8. Water soluble bases are known as?
(a) neutral (b) base (c) acid **(d) alkali**
9. If magnesium reacts with hydrochloric acid, what gas is produced?
(a) Hydrogen (b) oxygen (c) carbon dioxide (d) chlorine

10. Why is universal indicator a better one than litmus paper?

- a) Litmus paper can only be used for acids.
- b) Litmus paper can only be used for alkalis.
- c) Universal indicator goes green if something is neutral.
- d) Universal indicator is useful for all ranges of pH of the solution.**

11. Which of one of the following pairs of substances when mixed together produces table salt?

- a) Sodium thiosulphate and sulphur dioxide
- b) Hydrochloric acid and sodium hydroxide**
- c) Chlorine and oxygen
- d) Nitric acid and sodium hydrogen carbonate

12. What colour would hydrochloric acid (pH=1) turn universal indicator.

- (a) Orange
- (b) purple
- (c) yellow
- (d) red**

13. Which of the following salts does not contain water of crystallization?

- (a) Blue vitriol
- (b) Baking soda**
- (c) Washing soda
- (d) Gypsum

14. Which one of the following medicines is used for treating indigestion?

- (a) Antibiotic
- (b) analgesic
- (c) antacid**
- (d) antiseptic

Give answer of the following;

Fill in the following blanks:

- A-----taste is a characteristic property of all acids in aqueous solution.
- Acids react with some metals to produce-----gas
- Aqueous acid solutions conduct electricity because they have-----
- Acid reacts with base to produce a-----and water.
- Acid turn methyl orange to-----colour.
- Bases tend to taste-----and feel -----
- Aqueous basic solutions conduct electricity because they have-----.
- Bases react with-----to produce a salt and -----
- Bases turn phenolphthalein to-----colour.
