

• ASSIGNMENTS FOR FORMATIVE ASSESSMENT •

*ASSIGNMENT-3

CLASS RESPONSE

(Students may be divided into groups so that they may interact and then answer)

ORAL QUESTIONS

- Does Mohr's salt contain iron ?
- How many water (H_2O) molecules are present in a molecule of potash alum ?
- Name the family of salts to which sodium chloride and sodium sulphate belong.
- Baking powder contains sodium hydrogen carbonate. Give the name of the other main ingredient present.
- What is the chemical formula of bleaching powder ?
- Name the substance used in surgical bandages.
- The chemical formula of a substance is $MgSO_4 \cdot 7H_2O$. What is its commercial name ?
- Name the substance which acts as antichlor in bleaching of clothes by bleaching powder.
- Predict the nature of the solution when ferric chloride is dissolved in water.
- Name the salt used for the preservation of milk during summer.
- What is the name of the manufacturing process of washing soda ?
- What is the name of the concentrated solution of sodium chloride ?
- What is the name of the plant used for the manufacture of bleaching powder ?
- Name the constituents of soda lime.
- Give the name of a salt of copper which is colourless.
- How many H_2O molecules are lost by a molecule of gypsum upon strong heating ?
- What is the commercial name of sodium tetraborate ?

QUIZ

(Yes or No)

- Is sodium hydrogen carbonate a normal salt ?
- Does CO_2 act as fire extinguisher in soda acid fire extinguisher ?
- Can bleaching powder bleach a dry piece of cloth ?
- Does a molecule of green vitriol contain ten molecules of water of crystallisation ?
- Is washing soda an efflorescent substance ?
- Is an aqueous solution of sodium chloride neutral in nature ?
- Is soda ash same as washing soda ?
- Should we keep Plaster of Paris in air tight and dry containers ?
- Is potash alum a normal salt ?

- Is sodium hydroxide a deliquescent substance ? Match the following :

- | | |
|---------------------|------------------------------------|
| 1. Gypsum. | (a) $CaOCl_2$ |
| 2. Baking soda | (b) $MgSO_4 \cdot 7H_2O$ |
| 3. Bleaching powder | (c) $CaSO_4 \cdot \frac{1}{2}H_2O$ |
| 4. Epsom salt | (d) CaO |
| 5. Quick lime | (e) $CaSO_4 \cdot 2H_2O$ |
| 6. Plaster of Paris | (f) $NaHCO_3$ |

SEMINAR. Students may prepare seminar on the manufacturing processes and utility of different salts and present the same in the class.

PROJECT. If possible, trips may be organised to some factories where these salts are manufactured so that the students may collect hand information about these.

GROUP ACTIVITIES

Take some crystals of copper sulphate on a spatula and place them on the burner by keeping the spatula in the flame of the burner for sometime. Transfer it from the spatula to a watch glass. Keep the watch glass open for sometime. Answer the following on the basis of observations made during the demonstration.

- What is the original colour of the crystal ?
- What happens to the colour when crystal is heated strongly ?
- What change is noticed when the china dish is kept open for sometime ?
- How do you account for the observation ?

Student Work Sheet—1

Complete the following :

Salt	Acid used	Nature	Base used	Nature
Sodium nitrate ($NaNO_3$)	—	—	—	—
Ammonium chloride (NH_4Cl)	—	—	—	—
Sodium hydrogen carbonate ($NaHCO_3$)	—	—	—	—
Potassium acetate (CH_3COOK)	—	—	—	—

* Solution to the Assignment is available at the end of Chapter-3.