

## **X CHEMISTRY ASSIGNMENT**

### **CHAPTER -1 CHEMICAL EQUATION & REACTION**

**Q1) Translate the following statements into chemical equations and balance them:**

- a) Hydrogen Sulphide gas burns in air to give water and sulphur di oxide.**
- b) Aluminium metal reacts with steam to give aluminium hydroxide and hydrogen gas.**

**Q2)  $\text{ZnO} + \text{C} \rightarrow \text{Zn} + \text{CO}$**

- a) Identify the type of reaction.**
- b) Name the substance oxidised and reduced.**

**Q3) Why nitrogen is flushed in packed food stuff?**

**Q4) Name decomposition reaction which takes place in the presence of sunlight?**

**Q5) What happens when silver chloride is kept in sunlight?**

**Q6) A house wife does not clean her brass utensils for few days in her kitchen. She finds a greenish coating on them. What could be the reason? What the greenish coating is of?**

### **CHAPTER -2 ACID BASES & SALTS**

**Q1) Fresh milk has pH 6. How do you think that the pH will change as it turns into curd?**

**Q2) A milk man adds a very small amount of baking soda to fresh milk.**

- a) Why does he shifts the pH of fresh milk from 6 to slightly alkaline?**
- b) Why does this milk take longer time to set as curd?**

**Q3) A compound X which is prepared from gypsum has the property of hardening when mixed with water.**

- a) Identify compound X**
- b) Write its equation of preparation**

**Q4) A white powdery substance having strong smell of chlorine is used for disinfecting drinking water supply. Identify the substance, give chemical name and equation of its preparation ?**

**Q5) Do Acid's have hydroxide ion? Explain?**

**Q6) How will you prepare washing soda from baking soda?**

**Q7) A baker found that the cake prepared by him is hard and small in size. Which ingredient had he forgotten to add in it. How the ingredient when added makes the cake fluffy? Explain.**

### **CHAPTER – 3 METALS & NON METALS**

**Q1) Define ore, mineral, gangue**

**Q2) An ore gives sulphur dioxide gas on heating. How will you extract the metal from its ore?**

**Q3) How will you obtain mercury from cinnabar?**

**Q4) Give the constituents of the alloy which is used for welding of electrical wires?**

**Q5) Differentiate between reduction with carbon and electrolytic reduction?**

**Q6) A trivalent metal X is used along with iron(III) oxide to join broken iron rails which is a highly exothermic reaction.**

- a) Identify the metal X?**
- b) Name the technique?**
- c) Write the reaction?**

**Q7) Write three chemical properties of metals and non-metals so as to differentiate between the two.**