



Ch. 04 –CHEMICAL REACTIONS & EQUATIONS

CLASS –X TIME-1 HR M.M.-30

- 1) What is meant by a chemical reaction? 1
- 2) What is the general name of the chemicals which are added to fat and oil containing foods to prevent the development of rancidity. 1
- 3) Why do potato chips manufacturers fill the packet of chips with nitrogen gas? 1
- 4) What happens when an aqueous solution of sodium sulphate reacts with an aqueous solution of barium chloride? State the physical conditions of reactants in which the reaction between them will not take place. Write the balanced chemical equation for the reaction and name the type of reaction. 2
- 5) Give two examples from everyday life situations where redox reactions are taking place. 2
- 6) A solution of a substance 'X' is used for white washing:
- (i) Name the substances 'X' and write its formula.
- (ii) Write the reaction of the substance 'X' named in (i) above with water. 2
- 7) When you have mixed the solutions of lead (II) nitrate and potassium iodide.
- (a) What was the colour of the precipitate formed and can you name the precipitate ?
- (b) Write the balanced chemical equation for this reaction.
- (c) Is this also a double displacement reaction? 3
- 8) (a) Why is respiration considered an exothermic reaction?
- (b) Define the terms-oxidation and reduction.
- (c) Identify the substance that is oxidised and reduced in the reaction:
- $$\text{CuO}(s) + \text{Zn}(s) \rightarrow \text{Cu}(s) + \text{ZnO}(s)$$
- 3
- 9) (a) Write one example for each of decomposition reaction
- (i) Electricity (ii) Heat (iii) Light
- (b) Which of the following statements is correct and why copper can displace silver from silver nitrate and silver can displace copper from copper sulphate solution. 5
- 10) Write an activity to show the electrolysis of water, as an example of decomposition reaction. 5