

Chapter: Chemical Reactions and Equations Worksheet Level – 3

**Very Short Answer Type Questions :**

- Q1. What do you mean by exothermic reaction?
- Q2. Write the reaction that take place in black and white photography.
- Q3. Write the chemical reaction which takes place during respiration.
- Q4. Is it a correct statement “Decomposition is an endothermic process”? Comment.
- Q5. What is double displacement reaction?
- Q6. What are antioxidants?
- Q7. What happens when quick lime is added to water? Write with the reactions?
- Q8. What is neutralization reaction? Give one example.
- Q9. Why should curd and sour substances not be kept in brass and copper vessels?
- Q10. Balance the following chemical equation :  $\text{HNO}_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Ca}(\text{NO}_3)_2 + \text{H}_2\text{O}$
- Q11. What do we mean when we say that a substance has gone rancid?

**Short Answer Type Questions :**

- Q1. What is a redox reaction? Give one example of redox reaction.
- Q2. Identify the substance that is oxidized and reduced in the following reaction  
 $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$
- Q3. When KI-solution is added to a solution of lead (II)-nitrate ( $\text{Pb}(\text{NO}_3)_2$ ) in a test tube, a precipitate is formed
- What is the colour of this precipitate?
  - Name the compound precipitated
  - Write the balanced chemical equation for this reaction.
  - What type of reaction is this?
- Q4. Explain the following terms
- Rancidity
  - Precipitation
  - Corrosion
- Q5. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
- Q6. When zinc granules are added to dil.sulphuric acid, a gas is evolved. Write the name of the gas and reaction taking place.
- Q7. Write the balanced chemical equation for the following
- Zinc granules put in NaOH
  - Zinc granules put in HCl
- Q8. Magnesium is more reactive than copper or iron but iron is more reactive than copper. Which of the following pots will get damaged and why?
- A solution of magnesium sulphate is kept into copper pot.
  - A solution of copper sulphate is kept in iron pot.
  - A solution of magnesium sulphate is kept into iron pot.
- Q9. An hourly requirement of an astronaut can be satisfied by the energy released when 34.2 g of sucrose is burnt in his body. How many gram of oxygen would be needed in a space capsule to meet his requirement for one day?
- Q10. Why is respiration considered an exothermic process?