Worksheet: Chemical Reactions and Equations

- Why are decomposition reactions called the opposite of combination reactions?
 Write equations for these reactions
- 2. Oil and fat containing food items are flushed with nitrogen. Why?
- **3.** A solution of substance 'X' is used for white washing. What is the substance 'X'? State the chemical reaction of 'X' with water.
- **4.** What do you mean by a precipitation reaction? Explain by giving examples.
- 5. In the refining of silver, the recovery of silver from silver nitrate solution involved displacement by copper metal. Write down the reaction involved.
- **6.** Why is respiration considered an exothermic reaction? Explain
- **7.** A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed.
- 8. What does one mean by exothermic and endothermic reactions? Give examples.
- **9.** Why should a magnesium ribbon be cleaned before burning in air?
- **10.** What is a balanced chemical equation? Why should chemical equations be balanced?
- **11.** Hydrogen being a highly inflammable gas and oxygen being a supporter of combustion, yet water which is a compound made up of hydrogen and oxygen is used to extinguish fire. Why?
- **12.** What is meant by a chemical reaction?
- **13.** Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
- 14. 1 g of copper powder was taken in a China dish and heated. What change takes place on heating? When hydrogen gas is passed over this heated substance, a visible change is seen in it. Give the chemical equations of reactions, the name and the colour of the products formed in each case.
- **15.** Write one equation each for decomposition reactions where energy is supplied in the form of heat, light or electricity.
- **16.** What is the difference between displacement and double displacement reactions? Write equations for these reactions.