

D.A.V Public School, Chitra

Home assignment of summer vacation

Class-X Sub-chemistry FM-20

- 1) Why does the colour of copper sulphate solution change when an iron nail is dipped in it?
- 2) Identify the substance oxidized and reducing in the following reaction
(I) $4\text{Na} + \text{O}_2 = 2\text{Na}_2\text{O}$
(ii) $\text{CuO} + \text{H}_2 = \text{Cu} + \text{H}_2\text{O}$
- 3) What is balanced chemical equation? Why should chemical equations be balanced?
- 4) Why is respiration considered an exothermic reaction? Explain.
- 5) Why are decomposition reaction called opposite of combination reaction? Write equation also.
- 6) What is the difference between displacement and double displacement reaction? Write equation.
- 7) What do you mean by precipitation reaction? Explain by giving example.
- 8) Explain oxidation and reduction in term of gain or loss of oxygen with two examples each.
- 9) Why do we apply paint on iron articles?
- 10) A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed.

Project:(any one) with explanation

- 1) To demonstrate electrolysis of water.
- 2) To show thermal decomposition reaction of ferrous sulphate.