1. Define a chemical equation ?
2. Why should a magnesium ribbon be cleaned before burning in air ?
3. Write a balanced chemical equation of the reaction between lead nitrate and potassium iodide.
4. A shiny brown coloured element 'X' on heating in air becomes black in colour. Name the element 'X' and the black coloured compound formed. Write chemical equation.
5. What colour changes will you notice when hydrated iron (ii) sulphate is heated ?
6. Name the substance 'A' used for white wash. What happens when 'A' is mixed with water. Give chemical equations. What is the action of air on freshly white washed wall ? Give chemical equation.
7. Balance the equation, $Mg + H_2O \longrightarrow Mg(OH)_2 + H_2$
8. Give one example of a decomposition reaction which proceeds by absorbing electrical energy.
9. What happens when an iron object is exposed to humid air?
10. What conclusion can be drawn about the reactivity of metals zinc and sodium from the following equation.

    $ZnSO_4(aq) + 2Na \longrightarrow Na_2SO_4(aq) + Zn(S)$
11. Give an example of redox reaction. Mention the substance oxidized, substance reduced, oxidizing agent and reducing agent.
12. List the effects of oxidation in our daily life. Are these effects useful or harmful. Justify.
13. Why is hydrogen peroxide kept in coloured bottles.
14. A solution of $CuSO_4$ was kept in an iron pot. after a few days, the iron pot was found to have a large number of holes in it. Write the reaction and explain in terms of "activity series".
15. What are endothermic and exothermic reactions. Give one example of each.