1. What would happen to iron railings on road side if they are not painted? Why does it so happen? Give reaction.

Solution : Iron comes in contact with moist air and corrodes. Painting avoids its contact with moist air and prevents corrosion.

$$Fe + H_2O + O_2 \rightarrow Fe_2O_3 . XH_2O$$

2. What is displacement reaction ? Give one example.

Solution: Reactions in which a more reactive metal displaces a less reactive metal from its salt solution is called displacement reaction.

Example :

Copper sulphate + Iron → Iron sulphate + Copper

3. Mention few exceptions in metals.

Solution : Metals like sodium and potassium are soft and can be cut with a knife. Mercury is the only metal which is found in liquid state at room temperature.

4. What do you observe when rust dissolved in water is subjected to litmus test?

Solution : Rust is a metal oxide formed by the action of oxygen and water on metal. When we dissolve a metal oxide in water it forms basic solution as all oxides are basic in nature. Thus when we dip red litmus paper to the solution of rust it will turn blue in colour.

5. Define any two properties of metals.

Solution : The two properties of metals are :

Ductility : Property of metals by which they can be drawn into thin wires.

Sonorous : Metals produce ringing sound when struck. Thus they are sonorous.