



Does this indicate ?

- Aluminium easily combines with oxygen but still can be used for making kitchen utensils. Why ?
- What happens when granulated zinc is added to a solution of copper (II) sulphate ?

Generally alloys are used in electrical engineering devices instead of pure metals. Why is it so ?

III Think and answer.

- Why are alloys preferred over metals ? Answer taking Iron as the example.
- Why is hydrogen included in the activity series of metals, although hydrogen is not a metal ?
- The galvanised article is protected from rusting even if the zinc coating is broken. Explain.
- An ore gave sulphur dioxide on heating in air. Outline the steps for conversion of such an ore into metal.
- Why is that aluminium is used as a reducing agent in the thermite process ?
- An element M does not react with dil.  $H_2SO_4$ . M forms an oxide  $MO$  which turns red litmus solution blue. Predict whether M is metal or non-metal. Predict its position in the activity series.
- A metal M has two electrons in the valence shell and a non-metal N has seven valence electrons. Show bonding between M and N giving reason for the same. Predict its solubility.