1) State the mass and charge of the sub-atomic particles present in an atom of an element.
2) Define atomic number and mass number of an element. Which of the two is unique for a particular element.
3) Show the electronic configuration of elements with Z= 13. Identify the element.
4) Define RAM and RMM wrt C-12.
5) What are isotopes? Name the isotopes of Hydrogen and mention their Z and A.
6) Define valency in terms of hydrogen with example.
7) Why do elements exhibit variable valencies?
8) What do you mean by activity series of metal.
9) What do you mean by corrosion of metals?
10) Fe can displace Cu from its salts but the reverse cannot be done. Explain why.
11) What would you observe if a small piece of sodium is dropped in a trough of water?
12) Why does it take long to burn a log of wood but not the wood shavings?
13) State the characteristics of a good fuel?
14) Name the solvents used for the different varieties of rayon.
15) Why is it uncomfortable to wear synthetic clothes during summer?
16) Why are mixed fibres preferential over other fibres?
17) Why do use of plastic pose a threat to the environment?
18) Describe the electroplating of copper over an inferior metal?
19) Why are highly electropositive metals are only extracted by electrolysis?
20) Explain electro refining?
21) Differentiate between organic and inorganic compounds?
22) Define catenation and isomers.
23) Name the simplest alkene and alkyne with their structural formula.
24) What indicates water pollution?
25) Explain eutrophication.
26) What do you mean by oxygen demanding waste?
27) Give a brief description of Marble cancer of the Taj Mahal.
28) State the steps involved in purification of water at home.
29) How is CO harmful to us?
30) State any three ways to reduce water pollution.