Chapter 2

Objectives of the present investigations

Many organic compounds have been proved to be of great importance in medicinal chemistry. Their use for the treatment of a number of diseases is increasing day by day. Further it is also noticed that an excess intake of drug results in side effects and insufficient intake of a drug does not produce the desired effects.

The author of this thesis makes attempt to develop sensitive methods for the determination of medicinal compounds. The objectives of the present investigations are

i) To develop sensitive methods for the determination of furfuraldehyde thiosemicarbazone and p-hydroxy acetophenone thiosemicarbazone.

ii) To develop simple, rapid, selective and sensitive methods for the determination of metal ions in trace quantities.

iii) To develop sensitive and selective methods for simultaneous determination of metal ions by using derivative spectrophotometry.

iv) To apply the above methods for the determination of metal ions in groundnut seeds, sesame seeds, Alloys and natural water.

With the above objectives in mind, the investigations have been taken up and the results are incorporated in this thesis.