

Vidya Prasarak Mandal's
ADVANCED STUDY CENTRE
C/o. B.N.Bandodkar College of Science, Thane.

POST GRADUATE DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
(Re-Examination (Sem-I) 2004-05)

Date: 26.04.2005

PAPER-II

Marks: 50

Note: All questions are compulsory.

- Q.1) In NMR, what information is obtained from : 10
i) Chemical shift ii) Splitting pattern
iii) D₂O exchange iv) Integration
- Q.2) What is the role of calibration curve in UV-Visible spectroscopy? 04
- Q.3) Why flame photometry is applicable only to alkali metals? 04
- Q.4) What is standard addition method in flame photometry? 04
- Q.5) What is the role of Hollow Cathod lamp in atomic absorption in spectroscopy? 04
- Q.6) What are the methods of sample preparation in IR spectroscopy? 04
- Q.7) What information is obtained from IR spectrum? 04
- Q.8) What is the advantage of double beam spectrophotometry? 04
- Q.9) In UV Visible spectrophotometry, sample holder is made up of what -
material and Why? 04
- Q.10) What is molar extinction coefficient? 02
- Q.11) What is the maximum and minimum possible value of optical density? 02
- Q.12) What is electromagnetic radiation range of UV-Visible spectroscopy? 02
- Q.13) What is blank solution in UV-Visible spectroscopy? 02