

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

POST GRADUATE DIPLOMA IN APPLIED ANALYTICAL CHEMISTRY
(1st Sem. Examination 2004-05)

Date: 03/11/2004

PAPER-II

Marks: 50

NOTE: Q.1 to Q.10 carry 2 marks each. Q.11 to Q.16 carry 4 marks each.
Q.17 carry 6 marks.

- Q.1) What is RAM and ROM in computer?
- Q.2) What is analog and digital signal?
- Q.3) What is microprocessor?
- Q.4) What is transducer?
- Q.5) What is molar extinction coefficient?
- Q.6) What is the maximum and minimum possible value of optical density?
- Q.7) What is electromagnetic radiation range of UV-Visible spectroscopy?
- Q.8) In UV Visible spectrophotometry, sample holder is made up of what material? Why?
- Q.9) What is the advantage of double beam spectrophotometry?
- Q.10) What is blank solution in UV-Visible spectroscopy?
- Q.11) What is the role of calibration curve in UV-Visible spectroscopy?
- Q.12) Why flame photometry is applicable only to alkali metals?
- Q.13) What is standard addition method in flame photometry?
- Q.14) What is the role of Hallow Cathod lamp in atomic absorption in spectroscopy?
- Q.15) What are the methods of sample preparation in IR spectroscopy?
- Q.16) What information is obtained from IR spectrum?
- Q.17) In NMR, what information is obtained from :
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|--------------------------------|-----------------------|
| i) Chemical shift | ii) Splitting pattern |
| iii) D ₂ O exchange | iv) Integration |