

P. Pages : 1

Time : Three Hours



AW - 2323

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Assume suitable data wherever necessary.
 4. Diagrams and chemical equations should be given wherever necessary.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Explain theory & principle of I.R. Spectroscopy. Discuss in details about pharmaceutical application of I.R. Stereoscopy. **12**
2. Discuss the principle & Instrumentation of Refractometry. **12**
3. What do you understand by specific & molecular rotation. Explain in details about principle & instrumentation of polarimetry. **12**
4. What is thermal analysis write the principle & instrumentation of Differential thermal analysis. **12**
5. Explain theory & principle of potentiometry in details. **12**
6. Explain the principle of conductometry titration and write types of conductometry curve's. **12**
7. Write a short note on **any two**. **12**
 - a) Thermogravimetric analysis.
 - b) Pulse polarography.
 - c) Optical rotatory dispersion.
