

M. Pharm. First Semester (Pharmacognosy) (New)
35337 : MPG 101 T - Modern Pharmaceutical Analytical Techniques

P. Pages : 1

Time : Three Hours



AU - 0788

Max. Marks : 75

- Notes :
1. All question carry equal marks.
 2. Answer **any five** question.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Explain Theory and Laws associated with UV - visible spectroscopy and write note on derivative spectroscopy. 15
2. Write principle, instrumentation and applications for following chromatographic methods. 15
 - a) Column Chromatography.
 - b) Thin Layer Chromatography.
3. Explain origin of IR spectra and write note on finger print region. 15
4. Write notes on **any two**. 15
 - a) Thermogravimetric analysis.
 - b) Differential Thermal analysis.
 - c) Differential scanning calorimetry.
5. Explain NMR spectroscopy in detail. 15
6. Explain different peaks obtained in mass spectroscopy and give the rules governing mass spectroscopy fragmentation. 15
7. Discuss Theory, instrumentation and pharmaceutical applications of flame emission spectroscopy. 15
