

B. Pharm Seventh Semester
35178 : Pharmaceutical Analysis - III : T-7.5

P. Pages : 1

Time : Three Hours



AV - 2355

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** questions.

1. Explain construction and working of IR spectrophotometer. Write its applications to pharmaceuticals. 12
2. What is mean by Raman and Rayleigh scattering of light? Explain advantages, disadvantages with applications of Raman spectroscopy. 12
3. Write theory, principle and instrumentation with applications of polarimetry. 12
4. Explain following terms. 12
 - i) Specific and Molar refraction.
 - ii) Refractive index and angle of refraction.
5. What is mean by thermal analysis? Write principle, instrumentation and applications of thermogravimetric analysis. 12
6. What are requirements of IR radiation? Explain various modes of vibration of atoms in polyatomic molecule. 12
7. Write short note on **any two**. 12
 - i) Conductometric titrations.
 - ii) Electrogravimetry.
 - iii) Differential thermal analysis.
