

Code: 17S01101

M.Pharm I Semester Regular Examinations February 2018

MODERN PHARMACEUTICAL ANALYTICAL TECHNIQUES

(Common to IP, PT, PA&QA, PA&QC, PA, PC, Pharmaceutics, Pharmacognosy & Pharmacology)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 Explain the principle and instrumentation of I.R spectrometer.
OR
- 2 Write the principle, instrumentation and applications of flame emission spectroscopy.
- 3 Describe in detail Spin-spin coupling. Add a note on applications of ¹³C NMR.
OR
- 4 Write principle and instrumentation of NMR spectrometer.
- 5 Write in detail about mass fragmentation and its rules.
OR
- 6 Explain different types of ionization sources in mass spectroscopy.
- 7 Explain the principle and instrumentation of HPLC.
OR
- 8 Define and classify chromatography. Write a note on paper chromatography.
- 9 Define Bragg's law. Describe different x-ray diffraction methods.
OR
- 10 Write in detail about RIA.

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