

QP CODE: 111329

Reg. No:.....

First Semester M.pharm Degree Examinations April 2018

M.Pharm (Pharmaceutical Analysis)

Paper I: Modern Pharmaceutical Analytical Technique (MPA101T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Describe the principle, instrumentation and application of differential thermal analysis
2. Explain fragmentation rules and ions formed in mass spectrometry
3. Discuss the theory of fluorescence emission and quenching mechanisms

Short Notes

(9x5=45)

4. Bragg's law and its applications
5. Principle of capillary electrophoresis and iso electric focusing
6. Ultra high performance liquid chromatography
7. Principle and application of affinity chromatography
8. ¹³CNMR and its pharmaceutical application
9. Interferences in flame emission and atomic absorption spectroscopy
10. Pharmaceutical applications of UV-Visible spectroscopy
11. Dispersive and Fourier transform IR spectrometer
12. Types and importance of ion selective electrodes in potentiometry.
