

QP CODE: 111331

Reg. No:.....

First Semester M.Pharm Degree Supplementary Examinations July 2019

M.Pharm (Pharmaceutical Chemistry)

Paper I: Modern Pharmaceutical Analytical Technique (MPA101T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the principle, choice of mobile phase, pumping systems, sample injection system and column packing materials in HPLC
2. What is chemical shift. How it is measured. What are the factors influencing the chemical shift.
3. Explain the construction and working of fast atom bombardment mass spectrometry

Short Notes

(9x5=45)

4. Describe the differential UV spectroscopy with an example.
5. What are the factors affecting vibrational frequencies in IR spectroscopy
6. What are the interferences in atomic absorption spectroscopy
7. Explain different types of quenchers in spectrofluorimetry with suitable examples
8. Describe the ultra-high performance liquid chromatography
9. Briefly explain the thermogravimetric analysis
10. Describe the paper electrophoresis
11. Applications of X ray diffraction analysis
12. Describe various electrodes used in potentiometry.
