

QP CODE: 111329

Reg. No:.....

First Semester M.pharm Degree Examinations March 2019

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 in detail about fragmentation patterns in mass spectroscopy.
2. Enumerate the theory, instrumentation of fluorescence spectrofluorimetry. Add a note on sampling methods of IR spectroscopy.
3. Explain the principle and instrumentation on of HPTLC. Enlist the factors influencing chemical shift in NMR spectroscopy

Short Notes

(9x5=45)

4. Atomic absorption spectroscopy.
5. Explain the relaxation process of NMR.
6. Capillary electrophoresis.
7. Advantages, disadvantages and application of TGA.
8. What is X-ray crystallography, add note on rotating crystal technique.
9. Matrix-assisted laser desorption/ionization.
10. Theory and laws of UV-visible spectroscopy.
11. Explain the modes of molecular vibrations in IR spectroscopy.
12. Discuss about ion selective electrodes and applications of potentiometry.
