

QP CODE: 111330

Reg. No:.....

First Semester M.pharm Degree Examinations April 2018

M.Pharm (Pharmacognosy)

Paper I: Modern Pharmaceutical Analytical Techniques (MPA101T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the principle, instrumentation, interferences and applications of atomic absorption spectroscopy.
2. Describe the principle, instrumentation, data interpretation and applications of high performance thin layer chromatography.
3. Describe the instrumentation working conditions, factors affecting separation and applications of gel electrophoresis

Short Notes

(9x5=45)

4. Principle of FT-NMR.
5. Quantum numbers and their role in NMR.
6. Different types of ionization in mass spectroscopy.
7. Applications of mass spectroscopy.
8. Working of potentiometry.
9. Modulated DSC.
10. Principle of differential thermal analysis.
11. Applications of gas chromatography.
12. Applications of X-ray diffraction.
