

QP CODE: 111327

Reg. No:.....

First Semester M.pharm Degree Examinations March 2019

M.Pharm (Pharmaceutics)

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 about mass spectroscopy fragmentation and its rules.
2. Discuss the working principle and instrumentation of HPLC.
3. Explain about chemical shift and factors influencing chemical shift in NMR spectroscopy

Short Notes

(9x5=45)

4. Describe about the modes of molecular vibrations in infrared spectroscopy.
5. ELISA.
6. Explain the theory of UV-visible spectroscopy.
7. Describe about various detectors used in gas chromatography.
8. Discuss about the production of X-rays.
9. Explain briefly about capillary electrophoresis.
10. Explain about ion exchange chromatography.
11. Explain the principle of atomic absorption spectroscopy.
12. Explain the theory of fluorescence and factors affecting fluorescence intensity
