

QP CODE: 211331

Reg. No:.....

Second Semester M.Pharm Degree Examinations August 2018

M.Pharm (Pharmaceutical Chemistry)

Paper I - Advanced Spectral Analysis (MPC 201T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain mass fragmentation and its rules in detail including Mc Lafferty rearrangement
2. Describe the principle, working and applications of TGA
3. Elaborate the principle, instrumentation and applications of LC-MS

Short Notes

(9x5=45)

4. Discuss Woodward-Fieser rule for 1,3-butadienes and cyclic dienes
5. The principle involved in ion exclusion chromatography
6. The applications of super critical fluid chromatography
7. Principle of Raman spectroscopy
8. ELISA test
9. Interpretation of ^1H NMR
10. Radioimmunoassay of insulin
11. Principle involved in GC-MS
12. IR interpretation of organic compounds
