

QP CODE: 211331

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 2019

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. Discuss in detail about the principle, instrumentation and applications of HPTLC.
2. Explain the principle and applications of ELISA. Add a note on radio immunoassay of insulin.
3. Explain the principle, instrumentation and applications of Raman spectroscopy

Short Notes

(9x5=45)

4. Principle involved in GC-MS
5. Woodward- Fieser rule for 1,3- butadienes and cyclic dienes.
6. Fragmentation rules considering any two important functional groups.
7. Interpretation of any two organic compounds using NMR spectroscopy.
8. Flash chromatography
9. Add a note on meta stable ions and ring rule in mass spectroscopy.
10. Principle and applications of TGA.
11. Theory and working of ATR-IR
12. Principle and applications of super critical fluid chromatography
