

QP CODE: 211329

Reg. No:.....

Second Semester M.Pharm Degree Examinations July 2019

M.Pharm (Pharmaceutical Analysis)

Paper I: Advanced Instrumental Analysis (MPA 201T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the principle, instrumentation and detectors used in gas chromatography
2. Explain capillary electrophoresis
3. Differentiate between C 13 NMR and H1 NMR

Short Notes

(9x5=45)

4. HPLC detectors
5. Ion pair chromatography
6. NOESY and COSY
7. Size exclusion chromatography
8. Chemical shift and factors affecting chemical shift
9. Role of HPLC in chiral analysis of pharmaceuticals
10. LC MS
11. FT NMR
12. Principle, instrumentation and applications of super critical fluid chromatography
