Second Semester M. Pharm Degree Regular/Supplementary Examinations February 2021

M.Pharm (Pharmaceutical Chemistry)

Paper I - Advanced Spectral Analysis (MPC 201T)

Time: 3 Hours

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

- 1. Explain NOESY and COSY
- 2. Describe the principle and working of ATR-IR. Add a note on IR interpretation of functional groups in organic compounds.
- 3. Elaborate the principle, instrumentation and applications of DSC

Short Notes

- 4. The mass fragmentation of alkanes and amines
- 5. Principle in flash chromatography
- 6. Application of GC-AAS
- 7. Instrumentation and applications of Raman spectroscopy
- 8. Explain ¹H NMR interpretation with suitable examples
- 9. Radioimmunoassay of digitalis
- 10. Principle involved in HPTLC
- 11. Discuss ring rule and isotopic peak in mass fragmentation
- 12. Explain Woodward-Fieser rule for 1,3-butadienes and interpretation of enone compounds

Reg. No:....

(9x5=45)

Total Marks: 75

(3x10=30)

QP CODE: 211331