

QP CODE: 111328

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
January 2021**

M.Pharm (Pharmacology)

Paper I: Modern Pharmaceutical Analytical Technique (MPA101T)

(2017 Scheme)

Time: 3 Hours

Total Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Discuss in detail about the instrumentation of Fourier transform –IR spectrometer.
2. Discuss the isolation of drugs from excipients using chromatographic technique.
3. Discuss in brief about gel electrophoresis

Short Notes

(9x5=45)

4. Different types of column in chromatography.
5. The application of X-ray diffraction.
6. Differential thermal analysis.
7. Different types of ionization in mass spectroscopy.
8. Factors influencing chemical shift
9. Choice of solvent and solvent effect in UV-visible spectroscopy.
10. Principle involved in atomic absorption spectroscopy.
11. Mass fragmentation and its rules.
12. ¹³C-NMR.
