

QP CODE: 111327

Reg. No:.....

First Semester M.Pharm Degree Supplementary Examinations March 2020

M.Pharm (Pharmaceutics)

Paper I: Modern Pharmaceutical Analytical Techniques (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. Explain the theory involved in UV-visible spectroscopy. Mention the applications of UV-visible spectroscopy.
2. Discuss the principle and instrumentation in NMR spectroscopy.
3. Explain the general instrumentation of mass spectrometry

Short Notes

(9x5=45)

4. Briefly describe about the instrumentation of Fourier transform IR spectrometer.
5. Applications of flame emission spectroscopy and atomic absorption spectroscopy.
6. Applications of NMR spectroscopy.
7. Explain the principle involved in high performance liquid chromatography.
8. Briefly describe about the instrumentation in paper electrophoresis.
9. Applications of thin layer chromatography.
10. Discuss the applications of X-ray diffraction studies.
11. The instrumentation of gas chromatography.
12. ELISA
