

QP CODE: 111329

Reg. No:.....

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

M.Pharm (Pharmaceutical Analysis)

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. Describe the principle in mass spectroscopy and FAB technique. Explain the principles of any two detectors used in MS with diagram.
2. Describe the principle, instrumentation, interferences and application of atomic absorption spectroscopy.
3. Describe the principle, instrumentation, elution techniques, quantification and applications of gas liquid chromatography.

Short Notes

(9x5=45)

4. Destructive detective techniques used in chromatography
5. Detectors used in high performance liquid chromatography
6. Quantitative thin layer chromatography
7. Detectors used in infra-red spectroscopy
8. Types of quenching and factors affecting fluorescence.
9. Parameters used in gas chromatography separation.
10. 2D Poly Acrylamide Gel Electrophoresis (2D-PAGE).
11. Bragg's law
12. Calibration curve method of analysis.
