

QP CODE: 114331

Reg. No:.....

First Semester M.Pharm Degree Supplementary Examinations July 2025

M.Pharm (Pharmaceutical Chemistry)
Paper IV - Chemistry of Natural Products (MPC 104T)
(Common for 2019 and 2024 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 the structural elucidation and stereochemistry of Ephedrine and Ergot.
2. Briefly explain the chemistry of any two Macrolide antibiotics and any two β -Lactam antibiotics.
3. Briefly explain the classification and isolation of terpenoids. Explain the general methods of structural elucidation of terpenoids.

Short Notes

(9x5=45)

4. Explain the principle of RNA and DNA estimation.
5. Explain the chemistry and physiological significance of Folic acid.
6. Discuss the structural elucidation of citral.
7. Explain the characterization of Vitamin D by spectroscopic methods.
8. Discuss the active constituents of Phyllanthus niruri and curcuma longa used in the indigenous system.
9. Explain the isolation and purification of Flavonoids.
10. Discuss the chemistry of Cardiac Glycosides.
11. Explain the various analogues of Anti- malarial drugs.
12. Explain the clinical applications and recent advances in gene therapy.
