

QP CODE: 114331

Reg. No:.....

First Semester M.Pharm Degree Supplementary Examinations July 2023

**M.Pharm (Pharmaceutical Chemistry)
Paper IV - Chemistry of Natural Products (MPC 104T)
(Common for 2017 and 2019 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 natural products as leads for new pharmaceuticals for anti-cancer therapy.
2. Structural elucidation and stereochemistry of Ephedrine and Reserpine.
3. Discuss the chemistry and physiological significance of Vitamin B₁ and B₁₂.

Short Notes

(9x5=45)

4. Give the structural elucidation of camphor.
5. Describe the chemistry of contraceptive agents.
6. General methods of structural determination of flavonoids.
7. Write a note about Lovastatin and Dicoumarol.
8. Explain in brief about recombinant DNA technology.
9. Applications of IR in structural characterization of natural compounds.
10. Discuss the chemistry of Vitamin D.
11. Explain Oligonucleotide Therapy in detail.
12. Explain the active constituents present in *Gymnema sylvestre* and *Salacia reticulata*.
