

QP CODE: 114331

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations  
April 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. Discuss about the active constituents of crude drugs used in indigenous system for diabetic therapy.
2. Describe the structural elucidation of Quercetin.
3. Write briefly the classification isoprene rule and general methods of structural elucidation of Terpenoids.

**Short Notes**

**(9x5=45)**

4. Explain the general methods for structural determination of alkaloids.
5. Explain the chemistry and physiological significance of Vitamin A and Vitamin E.
6. Explain in detail the stereochemistry and nomenclature of steroids.
7. Principles of DNA and RNA estimation.
8. Give the structural elucidation of Menthol.
9. Discuss the chemistry of Paclitaxel.
10. Gene therapy.
11. Briefly elucidate the structure of ergot.
12. Discuss with suitable examples the application of proton NMR spectroscopy in the structural characterization of natural compounds.

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