

QP CODE: 114331

Reg. No:.....

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

**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 briefly the isolation and purification of flavonoids.
2. Explain the chemistry and physiological significance of folic acid
3. Explain briefly structural characterization of penicillin and digitalis glycosides.

**Short Notes**

**(9x5=45)**

4. Structural elucidation of morphine.
5. Stereochemistry of ephedrine
6. Oligonucleotide therapy.
7. Gymnema Sylvester
8. Explain the chemistry of cardiac glycosides
9. Structural elucidation of ergot alkaloids
10. Explain the recombinant DNA technology used in drug discovery.
11. The structure and uses of reserpine, squalene, vitamin C and camphor
12. The principle of RNA estimation.

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