

QP CODE: 114331

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
March 2020**

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. Explain the concept of natural products as leads in the case of cardiovascular and anti-cancer drugs.
2. Discuss the general methods of structural elucidation of alkaloids.
3. Describe the chemistry of vitamin B₁, B₂ and B₁₂

Short Notes

(9x5=45)

4. Oligonucleotide therapy.
5. Structural characterization of vitamin D using NMR and MASS spectrometry.
6. Active constituents of Swertia chirata and Trigonella foenum Graccum in indigenous diabetic therapy.
7. Quinine and its analogs in anti-malarial agents.
8. Sterols.
9. Chemistry of female contraceptive agents.
10. Chemistry of retinol and phytol.
11. A note on isoprene rule.
12. Beta lactam antibiotics.
