

QP CODE: 114331

Reg. No:.....

**First Semester M.Pharm Degree Regular/Supplementary Examinations
November 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 chemistry of progesterone.
2. Explain the cardiovascular drugs as Leads for new pharmaceuticals.
3. Structural Elucidation and stereo chemistry of Morphine.

Short Notes

(9x5=45)

4. Hybridoma technology.
5. Explain structural characterization of natural compounds Using IR, HNMR, and mass spectroscopy.
6. Explain the general methods of purification of flavonoids.
7. Give the stereo chemistry of Ephedrine.
8. Classify the Terpenoids with example.
9. Give the active constituents of Swertia chirata and Phyllanthus niruri.
10. Write the principles of RNA and DNA estimation.
11. Structural elucidation of Quercetin.
12. Chemistry of Folic acid.
