

QP CODE: 114331

Reg. No:.....

**First Semester M.Pharm Degree Supplementary Examinations
February 2022
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 development of anti-cancer agents from natural product leads.
2. Elucidate the structure of morphine and explain biological activities of alkaloids.
3. What are monoclonal antibodies. Explain in detail how they are produced through hybridoma technology.

Short Notes

(9x5=45)

4. Explain the chemistry of β - lactam antibiotics.
5. Write the active chemical constituents of
 - Salacia reticulate. • Pterocarpus marsupiam. • Swertia chirata.
 - Curcuma longa linn. • Phyllanthus niruri.
6. Explain the chemistry of contraceptive agents.
7. Discuss in brief the use of IR spectroscopy as a tool for the structural characterization of natural compounds.
8. Explain in brief about recombinant DNA technology.
9. Discuss the chemistry and biological importance of cardiac glycosides.
10. Explain the chemistry and physiological significance of Vitamin A.
11. Structural elucidation of quercetin
12. Add a note on oligonucleotide therapy.
