

First Semester M.pharm Degree Examinations March 2019

M.Pharm (Pharmaceutical Chemistry)

Paper IV - Chemistry of Natural Products (MPC 104T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the concept of natural products as leads in the case of morphine and curare alkaloids.
2. Discuss the general methods of structural elucidation of flavonoids.
3. Describe the chemistry of vitamin A, C and E

Short Notes

(9x5=45)

4. Gene therapy.
5. Structural characterization of penicillin using NMR and MASS spectrometry.
6. Active constituents of Gymnema sylvester and Salacia reticulata in indigenous diabetic therapy.
7. Paclitaxel and docetaxel.
8. Cardiac glycosides.
9. Chemistry of contraceptive agents
10. Chemistry of citral and camphor.
11. A note on the isolation of terpenes.
12. Stereochemistry of reserpine.
