

QP Code: 107331

Reg No:

First Year M.Pharm Degree Supplementary Examinations– March 2014

(2011 Scheme)

(Pharmaceutical Chemistry)

Paper III – Chemistry of Natural Products

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(2x20 =40)

1. Elucidate the structure of morphine based upon the chemical degradation, synthesis and spectral data.
2. Classify 'terpenoids' with examples. Discuss the constitution of camphor and α -terpineol.

Short Essays:

(6X10=60)

3. Elucidate the structure of cholesterol.
4. Discuss the chemistry of carotenes.
5. Explain how do you isolate and characterize neutraceuticals. Add a note on marine natural products having therapeutic utility.
6. Discuss the chemistry of rutin and quercetin.
7. Explain how alkaloids are isolated and purified. Discuss the constitution of quinine.
8. Discuss the application of IR, NMR and mass spectroscopy in the structural determination of natural products.
