

QP Code: 107331

Reg No:

First Year M.Pharm Degree Examinations – September 2013

(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. Explain the applications of IR, NMR and MASS spectroscopy in the structural elucidation of natural products. Explain the importance of GLC and HPLC in separation.
2. Classify terpenoids with examples. Add a note on isoprene rule. Elucidate the structure of abietic acid

Short Essays:

(6x10=60)

3. Describe the proof for the structure of quinine.
4. Outline the synthesis of progesterone and camphor.
5. Describe the chemistry of carotenoids and discuss the constitution of Vitamin A.
6. Elucidate the structure of ergosterol.
7. Discuss in detail the marine natural products with therapeutic potential.
8. Explain in detail the WHO guidelines for evaluation of safety and efficacy of herbal medicines.
