

**QP Code: 105330**

**Reg No: .....**

**First Year M.Pharm Degree Supplementary Examinations– March 2014  
(2011 Scheme)**

**(Pharmacognosy & Phytochemistry)**

**Paper I - Phytochemistry**

**Time: 3 hrs**

**Maximum Marks: 100**

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

**Essays:**

**(2x20 =40)**

1. Explain in detail chemistry and biogenic pathway for production of steroids
2. What is the role of natural products as leads for new drugs. Add a note on approaches to discovery and development of natural products as potential new drugs

**Short Essays:**

**(6x10=60)**

3. Explain chemistry of protein and peptides
4. Discuss nutraceuticals
5. Discuss the application of analytical techniques used to study phytoconstituents
6. Explain the selection and optimization of lead compounds
7. Explain the method of extraction and isolation of flavonoids
8. Briefly explain extraction of marine pharmaceuticals. Mention official sources, constituents and uses of any three marine drugs

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