

QP Code: 105330

Reg No: .....

First Year M.Pharm Degree Examinations – September 2013

(2011 Scheme)

**(Pharmacognosy & Phytochemistry)**

**Paper I - Phytochemistry**

Time: 3 hrs

Maximum Marks: 100

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

**Essays:**

**(2x20 =40)**

1. Define an alkaloid and classify with suitable examples. Explain the biogenetics path way, chemistry, method of extraction isolation, purification and estimation of tropane alkaloids
2. What do you mean by natural products are leads for new drugs. Discuss in details the approaches to discovery and development of natural products as potential new drugs and add a note on optimization of lead compounds for further development

**Short Essays:**

**(6x10=60)**

3. Mention the method of extraction, isolation, purification and estimation of the taxol
4. Explain DNA finger printing in detail. What is the importance of DNA finger printing in phytochemical research
5. Neutraceuticals.
6. Analytical techniques used in the study of chemistry of natural products.
7. Discuss the chemistry and analysis of proteins.
8. Discuss the chemistry and pharmacological actions of carotenoids.

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