

QP Code: 105331

Reg No:

First Year M.Pharm Degree Examinations - February 2013

**(2011 Admn- New Scheme)
(Pharmaceutical Chemistry)**

Paper I- Advanced Medicinal Chemistry

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20=40)

1. What is QSAR. Discuss Hammett's and Taft equation and its role in predicting biological activity. Discuss the following topics in analog design with suitable examples. • Rigid analogs • Alterations in stereochemistry and • Bioisosterism.
2. Mention the classification of anti-parkinsonism agents. Enumerate the differences between the mechanism of action of anti-parkinsonism agents and agents for Alzheimer's disease with suitable examples. Outline the synthesis of any one anti viral agent

Short Essays:

(6x10=60)

3. Classify antihypertensive agents. Mention the mechanism of action of ACE-inhibitors with examples
4. Explain how radio protective agents are useful in therapy
5. Classify anti hyperlipidemic agents on the basis of mechanism of action and mention the synthesis of any one drug
6. Describe on High Throughput screening and library synthesis on resin beads.
7. What are the various informatics methods to be considered while designing a drug
8. Explain the terms: • Rigid docking • Receptor mapping and • Pharmacophore matching
