

QP Code: 106331

Reg No:

First Year M.Pharm Degree Examinations– September 2014

(2011 Scheme)

(Pharmaceutical Chemistry)

Paper II– Advanced Organic Chemistry

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Define and classify isomerism with examples. Discuss about plane of symmetry and characterization of enantiomers.
2. What are the principles of synthetic planning. Explain the structure functionality relationship and protocol for synthetic design.

Short Essays:

(6x10=60)

3. Explain the kinetic resolution and acyclic diastereo selection.
4. Explain in detail about retro synthetic analysis.
5. Discuss in detail rearrangements of carbon to carbon and nitrogen to carbon
6. Discuss the localized and delocalized bonding with examples. Add a note on electron donor-acceptor complexes.
7. Explain the mechanisms and methods of determining reaction mechanism based on kinetic requirements.
8. Explain in detail about stereochemistry of aromatic electrophilic and nucleophilic substitutions.
