

QP Code: 106331

Reg No:

First Year M.Pharm Degree Examinations August 2016

(Pharmaceutical Chemistry)

Paper II– Advanced Organic Chemistry

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Explain phase transfer catalysis in epoxide, nitril and reduction reactions with examples.
2. Discuss the mechanism, reactivity, stereochemistry of aromatic nucleophilic substitutions and elimination reactions.

Short Essays:

(6x10=60)

3. Discuss the asymmetric synthesis and add a note on double asymmetric induction.
4. Discuss the regio selective enolate generation reactions.
5. Explain the mechanism of oppeneaur oxidation and Birch reduction with suitable examples.
6. Discuss the ranking of electron donor groups.
7. Discuss the fate of excited molecules in photochemical reactions.
8. Explain the stereochemistry of molecules with one, two and more than two chiral centers.
