

QP Code: 106331

Reg No:

First Year M.Pharm Degree Examinations- February 2013

(2011 Admn- New 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. Discuss the mechanism including stereochemistry involved in Birch reduction, Oppeneauer oxidation, Meerwin-Pondroff's reduction and Wolff Kishner reduction
2. What are chiral compounds. Explain with suitable examples: molecules with one chiral center, molecules with a chiral axis, molecules with a chiral plane of symmetry and molecules with two chiral centers.

Short Essays:

(6X10=60)

3. Explain the methods for determining reaction mechanisms. Add a note on hyper conjugation
4. Explain the asymmetric synthesis of amino acids and betalactams
5. Discuss the physical and chemical processes involved in the fate of the excited molecules.
6. Discuss, briefly, the principles of synthetic planning. Add a note on retro-synthesis.
7. What is phase transfer catalysis. Discuss the principle involved in it by emphasizing on the formation of nityl and anhydride.
8. Discuss in detail the mechanisms involved in elimination reactions.
