

QP Code: 103331

Reg No:

First Year M.Pharm Degree Examinations (Supplementary)- November 2012
(Pharmaceutical Chemistry)

Paper III - Advanced Organic Chemistry

Time: 3 hrs

Maximum Marks: 100

- Answer all questions
- Draw diagrams wherever necessary

Essays:

(2x20 =40)

1. What is asymmetric synthesis. Explain in detail about asymmetric amplification and asymmetric synthesis of amino acid and B- lactams
2. Explain in detail the mechanism and stereochemistry of • Birch reduction
• Meerwin Pondroft's reduction • Oppeneaur oxidation • Wolf Kishner reduction

Short Essays:

(6x10=60)

3. Explain the term electron distribution and localized and delocalized bonds with examples.
4. Explain detail about retro synthetic analysis. Add a note on hydrogen bonding and crown ethers.
5. Give a detailed account on free radicals and nitrenes.
6. Discuss the phase transfer catalysis in anhydride and epoxide formation. Explain hyper conjugation with examples.
7. Explain the logic centered molecular synthesis. Add a note dislocation, consonant and dissonant circuits.
8. Discuss in detail the various mechanisms involved in the addition to carbon - carbon multiple bonds. Add a note on elimination reactions.
