

QP Code: 106331

Reg No:

First Year M.Pharm Degree Examinations – July 2015

(Pharmaceutical Chemistry)

Paper II– Advanced Organic Chemistry

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. What is asymmetric synthesis. Discuss the factors influencing the selectivity of chiral reagents, catalysts and solvents. Add a note on double asymmetric induction.
2. Explain:
 - Solvation and media effect
 - pKa Rule
 - Hyper conjugation
 - π bond Stabilization

Short Essays:

(6x10=60)

3. Discuss the chemistry of electron rich σ bond and simple pi-bonds with examples.
4. Discuss free radical substitution with examples. Explain multiple bond elimination reactions.
5. Explain the Franck and Condon principles with examples. Add a note on singlet photosensitization.
6. Explain the phase transfer catalysis in epoxide and sulphide formation.
7. Discuss the region and stereo selective enolate generation and mention symbiotic effects.
8. Discuss about carbocations and carbenes.
