Reg No:

First Year M.Pharm Degree Examinations – September 2013

(2011 Scheme)

(Pharmaceutical Chemistry)

Paper II– Advanced Organic Chemistry

Time: 3 hrs

• Answer all questions

• Draw diagrams wherever necessary

Essays:

- (2x20 =40)
- 1. Explain in detail the mechanism and stereo chemistry of aromatic elctrophillic substitution and nucleophillic substitution reactions.
- 2. Discuss various methods of determining reaction mechanisms. Explain in detail about retro synthesis and asymmetric synthesis.

Short Essays:

- 3. Explain the generation, fate and biological significance of free radicals and carbanions
- 4. What are forbidden transitions. Explain the various types of excitations and the fate of excited molecules in photochemical reactions.
- 5. Describe alkylation and explain in detail phase transfer catalysis.
- 6. Explain the regio and stereo selective enolate generation. Add a note on 'O' versus 'C' alkylation
- 7. Explain localized and delocalized bonds with examples.
- 8. What are chiral compounds. Explain the characterization of enantiomers by chiroptical methods.

Maximum Marks: 100

(6x10=60)