

QP Code: 106331

Reg No: .....

First Year M.Pharm Degree Supplementary Examinations– March 2014

(2011 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. Explain the mechanism and stereochemistry of :
  - Aliphatic nucleophilic substitution.
  - Aromatic electrophilic substitution.
2. Explain the mechanism of oxidation-reduction reactions of:
  - Wolf Kishner reduction
  - Oppeneaur oxidation
  - Catalytic hydrogenation
  - Birch reduction

Short Essays:

(6x10=60)

3. Explain the chemistry of electron sources of electron rich sigma bond and aromatic rings
4. Explain the term photochemistry. Mention Franck & condon principle and types of excitations.
5. Explain pka rule and pi bond stabilization
6. Explain the mechanism and reactivity of elimination reactions.
7. Explain the asymmetric synthesis of amino acids.
8. What are enantiomers. Mention the characterization of enantiomers by chiroptical methods.

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