

QP Code: 106331

Reg No:

First Year M.Pharm Degree Examinations August 2017

(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 about generation, fate and biological significance of electron deficient organic groups. Add a note on mechanism and stereochemistry of oxidation-reduction reactions.
2. Explain:
 - Jablonski diagram
 - Aromatic nucleophilic substitution
 - Meerwein Ponndorf's reduction
 - Hyper conjugation

Short Essays:

(6x10=60)

3. Determination of photochemical mechanisms.
4. Discuss about: "O" versus "C" Alkylation Forbidden transitions
5. Explain the asymmetric synthesis of amino acids and beta-lactams.
6. Explain the stereochemistry of molecules with two or more chiral centers with examples.
7. Explain electrophiles and ester hydrolysis
8. Discuss about chemistry of electron sources.
