

Second Year B.Pharm Degree Examinations - August 2014

(2012 Scheme)

**PHARMACEUTICAL CHEMISTRY III
(Advanced Organic Chemistry)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Distinguish between enantiomer and tetrahedral carbon with suitable examples
2. Discuss the heterocyclic compound and explain the methods of preparation & reaction of pyridine
3. Explain the structures, oxidation and reduction reactions of naphthalene

Short notes

(14x5=70)

4. Explain the reactions of Thiophene
5. Explain about optical activity and chirality with its relationship
6. Preparation and important reactions of pyrazine
7. Lexicon of elements of symmetry with example
8. Preparation and important reactions of pyridazine
9. Narrate the conventions used in stereochemistry
10. Electrophilic substitution of pyridine
11. Explain the reactivity and oxidation of pyrrole
12. Discuss Meerwin-Pondroff reduction
13. Preparation methods of dibenzazepines
14. Structure of 1, 5 - Dinitro naphthalene, 6- amino-2- naphthalene sulphonic acid
15. Sequence rule with illustration
16. Stereochemistry of cyclic compounds with example
17. Birch reduction and Mannich reaction
