

Second Year B.Pharm Degree Examinations July 2017

PHARMACEUTICAL CHEMISTRY III

(Advanced Organic Chemistry)

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain the racemic modification, configuration and its specifications.
2. Define enantiomers with example and explain one method of preparation with reaction of pyrrole, furan and thiophene
3. Narrate about the electrophilic substitution reaction of naphthalene. Discuss the structure & reaction of anthracene and phenanthrene

Short notes

(14x5=70)

4. Preparation and important reactions of indole
5. Meso structure and diastereomers with example
6. Walden inversion
7. Asymmetric synthesis with suitable example
8. Nomenclature of heterocyclic compounds
9. SN₁ and SN₂ reaction
10. Basicity of pyridine
11. Reactivity and orientation of furan
12. Skraup's quinoline synthesis with reactions
13. Stereochemistry of Biphenyl Compounds
14. Mention the structure and names of principal products from each of the following reaction. Pyridine with ethyl bromide. Furan is treated with maleic anhydride
15. Halogenations of naphthalene
16. Darzen's reaction
17. Electrophilic substitution reactions of pyrrole
