

Second Year B.Pharm Degree Supplementary Examinations June 2019

Pharmaceutical Chemistry III

(Advanced Organic Chemistry)

(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss the important methods of preparation and chemical reactions of indole.
2. Explain Meerwein- Ponndorff reduction and Darzen's reaction.
3. Explain the stereochemistry of biphenyl compounds.

Short notes

(14x5=70)

4. Mention the uses of selenium oxide.
5. Discuss stereospecific synthesis with an example.
6. Explain sequence rules with examples.
7. Discuss electrophilic reactions of furan with examples.
8. Mention the resonance structures phenanthrene.
9. What are the conditions for a compound to show optical isomerism.
10. Describe the methods for determining configuration of geometrical isomers.
11. Write the reactions:
 - When pyrrole is treated with chloroform and sodium hydroxide.
 - Quinoline with KMnO_4 .
12. Discuss Curtius rearrangement with an example.
13. Mechanism of Clemmenson's reduction.
14. Outline the method of synthesis of pyrazole and oxazole.
15. Explain asymmetric synthesis with examples.
16. Mention any one method of preparation of dibenzazepines.
17. Explain catalytic hydrogenation reactions with an example
