

**Second Year B.Pharm Degree Supplementary Examinations
December 2017**

**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. Explain elements of symmetry with examples.
2. Discuss Curtius rearrangement and Michael addition reaction.
3. Discuss the important methods of preparation and chemical reactions of quinoline

Short notes**(14x5=70)**

4. Mention two important electrophilic substitution reactions of naphthalene.
5. Discuss the nucleophilic substitution reactions of pyridine with suitable examples.
6. Outline the method of synthesis of furan and thiazole.
7. Give the applications of mercuric acetate.
8. Mention the resonance structures anthracene.
9. Explain relative and absolute configuration.
10. Give two reactions of reduction with hydrazine and its derivatives
11. Discuss Cis- Trans isomerism with suitable examples.
12. Explain the stereochemistry of oximes.
13. Explain with example Schmidt rearrangement reaction.
14. Outline the method of synthesis and important reaction of quinazolones.
15. Mention the structure of azepine, oxepine, diazepine and dibenzazepine.
16. Mention the reactions of indole with chloroform and sodium hydroxide and isoquinoline with methyl iodide.
17. Explain sequence rules with examples
