

Second Year B.Pharm Degree Supplementary Examinations - August 2014

PHARMACEUTICAL CHEMISTRY III (2010 SCHEME)
(Advanced Organic Chemistry)**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. How will you prepare an asymmetric compound by stereo-specific method. Add a note on stereo-selective synthesis
2. Explain the structure, nomenclature, aromaticity and method of preparation of quinolines
3. Describe in detail about the mechanism of Michael addition and Hofmann rearrangement

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

4. Mention any five important reactions of anthracene
5. Define conformational analysis and elements of symmetry
6. Discuss the oxidation reactions involving perchloric acid and mercuric acetate
7. Explain the method of preparation of indole
8. Explain the structure and numbering of furan, oxepine, pyrazine, acridine and phenanthrene
9. How will you determine the configuration of isomers.
10. Describe the reactivity of naphthalene
11. Mechanism involved in metal hydride reduction
12. Explain the preparation and reactions of phenothiazine
13. Stereochemistry of amines
14. Explain the various reactions of oxazole
15. Explain the mechanism of reactions involved in lead acetate and selenium oxide
16. Describe the structure and nomenclature of diazepam, dibenzazepam, quinalone and quinazolinone
17. Mention the various methods involved in the preparation of thiophene.
