

Second Year B.Pharm Degree Supplementary Examinations July 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. What is Cis – Trans isomerism. Explain the E-Z system of nomenclature
2. Describe the stereospecific and stereo selective synthesis
3. Give the important methods of preparation and chemical reactions of isoquinoline

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

4. Give the application of mercuric acetate
5. Metal hydride reduction
6. Reactions of Indole
7. What happens when
 - Quinoline is treated with sulphuric acid
 - Furan is treated with maleic anhydride
8. Walden inversion and stereo mutation
9. Explain sequence rules, giving examples
10. Explain with an example “centre of symmetry”
11. Explain the various optically active and inactive forms possible in compounds containing two different chiral carbons
12. What is Meerwin – Ponder Verley reduction. Explain with examples
13. Halogenation reactions of quinoline
14. Explain the aromatic character of anthracene
15. Explain the resonance structures of phenanthrene
16. Outline the structure and numbering of azepines
17. Give two examples for the oxidative reactions of perchloric acid
