

Second Year B.Pharm Degree Examinations - July 2016

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. Discuss the geometrical isomers with suitable examples. Add a detailed note on the nature and rotation about C=C double bond.
2. Discuss on the mechanism of oxidation using perchloric acid and mercuric acetate.
3. Explain the electrophilic, oxidation and reduction reactions of anthracene and phenanthrene.

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

4. Enumerate any five important reactions of indole.
5. Mode of preparation of pyrrole and pyrimidine.
6. Schmidt reaction.
7. Explain SN2 reaction
8. Stereochemistry of cyclic compounds - explain.
9. What is the mechanism of Meerwin - Ponderoff reduction with any two applications.
10. Assymmetric synthesis.
11. Chemical reactions of imidazole and quinoline.
12. Comment in general on the electron density and reactivity of poly nuclear hydrocarbons.
13. Explain the stereochemistry of amines.
14. Explain the mechanism and any two applications of Mannich reaction.
15. Mode of preparation of pyrazole and pyrazine.
16. What are the conventions used in stereochemistry.
17. How do you analyze the configurations of optical isomers
