

Second Year B.Pharm Degree Supplementary Examinations - January 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. Explain about the prediction of enantiomerism with chiral centre and mention physical & chemical properties of enantiomers
2. Narrate the electrophilic substitution in pyrrole, furan & thiophene and briefly describe its reactivity & orientation
3. Explain about the dehydrogenation of hydroaromatic compounds and mention the reaction of sulphonation of naphthalene

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

4. Conformational isomerism with example
5. Preparation and important reactions of imidazole
6. Explain about the relative and absolute configuration in detail
7. E₁ and E₂ reaction
8. Define geometrical isomerism and explain the theories of double bond
9. Nucleophilic substitution of pyridine
10. Explain the reactivity and oxidation of furan
11. Preparation methods of quinolones
12. Structure and names of: • 2,4-dinitro-1-naphthalene • 1,2,3,4-tetrahydro naphthalene
13. Explain Darzen's Reaction
14. Michael addition reaction
15. Structure and names of principal products from each of the following reaction:
 - Thiophene with fuming HNO₃ in the presence of acetic anhydride
 - Pyrrole with pyridine in the presence of SO₃
16. Beckmann rearrangement
17. Preparation and important reactions of oxazole
