

First Year B.Pharm Degree Supplementary Examinations - September 2013

(2010 - Scheme)**PHARMACEUTICAL CHEMISTRY - II**
(Organic Chemistry)**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Describe the general mechanism of electrophilic aromatic substitution reaction. Briefly explain the nitration of benzene.
2. Discuss the halogenation of alkanes with the mechanism. Explain the different conformations of cyclohexane.
3. Mention Kharasch effect with a suitable example. Explain 1,4 addition reaction in conjugated dienes

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

4. Differentiate the three classes of amines.
5. List any five differences between SN1 and SN2 reaction.
6. Explain polymerization reaction of alkenes.
7. Explain the mechanism of nucleophilic addition reaction of carbonyl compounds with an example.
8. Explain basicity of amines. Why arylamines are less basic than alkyl amines.
9. List three synthetic reactions of benzene diazonium chloride.
10. List any two methods of synthesis of carboxylic acids.
11. Discuss the stability of phenoxide ion.
12. Explain the concept of resonance.
13. Why aldehydes are more reactive than ketones.
14. List any two methods for the preparation of alkyl halides.
15. Comment on the acidity of alkynes.
16. Explain Williamson's ether synthesis and reaction of nitriles
17. Briefly explain Diel's alder reaction.
