

First Year B.Pharm Degree Supplementary Examinations , April 2015

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

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Explain the following reaction with mechanism: • aldol condensation • addition of HBr to alkenes.
2. Discuss any two methods to prepare three classes of alcohols. Add a note on relative reactivities of primary, secondary and tertiary alcohols
3. Explain the free radical substitution reaction of alkanes. Add a note on ring stability of cyclohexane."

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

4. Define : • electrophile • nucleophile • bond dissociation energy
5. Clemmenson reaction and Wolf Kischner reaction
6. Classify amines. Explain the relative reactivities of amines
7. Explain the preparation of aceto-acetic ester with mechanism.
8. Explain E₂ elimination mechanism with an example.
9. List any two methods of preparing nitriles.
10. What is diazotisation. List two reactions of diazonium salts.
11. Discuss the stability of carboxylate anion and the preparation of any two carboxylic acid derivatives.
12. List any three chemical reactions of phenol.
13. Describe the basic concepts of benzene structure.
14. Explain Baeyer's oxidation of alkenes.
15. Briefly explain inductive effect.
16. Acidity of alkynes.
17. Explain • Oppenauer oxidation • Reformatsky reaction.
