

First Year B.Pharm Degree Supplementary Examinations , April 2015

(2012 - 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 reaction and mechanism of benzoin condensation and Reformatsky reaction.
2. What happens when propene is treated with hydrogen bromide. Discuss the mechanism involved and peroxide effect.
3. Explain the mechanism of nitration in benzene. Add a note on theory of reactivity.

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

4. Stereo specific reduction of alkynes and explain keto enol tautomerism.
5. Mechanism of E₁ and E₂ reaction.
6. Discuss Kolbe-Schmidt reaction and Fries rearrangement.
7. Explain Hofmann's degradation reaction.
8. Mention any three reactions of nucleophilic addition. Add a note on reactivity of carbonyl compounds.
9. Mechanism of aldol condensation.
10. What is the application of Hinsberg method. Add a note on acylation of amines
11. Explain the acidity of phenols.
12. Discuss the decarboxylation reaction in carboxylic acids. Add a note on dicarboxylic acids.
13. Bayer's theory along with its limitations.
14. Explain different types of isomerism with examples.
15. Explain inductive, electromeric and mesomeric effect in organic molecules.
16. Stability of conjugated dienes.
17. Mention two methods for preparation of carbonyl compounds. Add a note on its polarity and reactivity.
