

First Year B.Pharm Degree Supplementary Examinations - March 2014

(2012 - Scheme)**PHARMACEUTICAL CHEMISTRY - II**
(Organic Chemistry)**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Discuss resonance, hyper conjugation, mesomeric effect and inductive effect with examples.
2. Describe three general methods of preparation of alcohols, carboxylic acids and ketones.
3. Explain the mechanism of electrophilic addition reaction of alkenes and how is that the catalytic hydrogenation of alkenes always gives a cisproduct

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

4. List any three methods of preparation of phenols
5. Differentiate conformational and geometrical isomerism with examples
6. Define the term aromaticity. Discuss the modern theory of aromaticity, making a mention of Huckel's rule.
7. What is Williamson's synthesis. Explain the action of hydroiodic acid on ethers.
8. What do you mean by 'coupling' of diazonium salts of phenols and amines. Mention two examples.
9. Mention the different methods of preparing aromatic nitro compounds with reaction.
10. What is aldol condensation and benzoin condensation with suitable examples.
11. Explain Saytzeff's rule with examples.
12. Sachse-Mohr theory.
13. Method of preparation and synthetic uses of ethylacetoacetate.
14. Classify amines with two examples and explain how they are separated in a mixture.
15. Explain the theory of orientation by amino group and chlorine in electrophilic aromatic substitution.
16. Kharasch effect with example.
17. Explain Walden inversion with mechanism and examples.