

First Year B.Pharm Degree Supplementary Examinations, February 2016

PHARMACEUTICAL CHEMISTRY - II
(Organic Chemistry)
(2010 - Scheme)

Time: 3 Hours**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

Essay**(3x10=30)**

1. Explain the mechanism and synthetic applications of Kolbe-Schmidt reaction and Reimer-Tiemann reaction.
2. Explain the general methods of preparation of alcohols .
3. Explain characteristic reactions of halogenated aromatic compounds with suitable examples.

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

4. Explain the stability and 1,4 addition reaction of conjugated alkadienes.
5. Explain the reduction reaction of esters and amides
6. Explain Markonikov's rule with the help of an example,.
7. Mention two methods of synthesis and three chemical reactions for carbonyl compounds.
8. Mechanism of hydration of alkynes
9. Saytzeff rule.
10. Explain the mechanism of fries rearrangement
11. Mention any two methods of preparing and three chemical reactions of monocarboxylic acids.
12. Explain Hofmann's degradation reaction with mechanism.
13. General methods of preparing acid chlorides.
14. Explain Oppenauer oxidation with examples.
15. How do you separate primary, secondary and tertiary amines by Hinsberg method.
16. List reasons : • Methylamine is a stronger base than ammonia • Aldehydes are more reactive than ketones
17. Explain Bayer's strain theory.
