QP CODE:102006 Reg.No:

First Year B.Pharm Degree Supplementary Examinations - March 2014

(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 stability and structure of benzene
- 2. List any one method of preparation and reaction of acid derivatives. Explain the mechanism of hydrolysis of esters.
- 3. Explain nucleophilic aliphatic substitution reactions with suitable examples. Add a note on Walden's inversion.

Short notes (14x5=70)

- 4. What are nitro compounds. Explain the acidity of nitro compounds.
- 5. Mention any two methods for preparation of carbonyl compounds and explain the polarity of carbonyl compounds.
- 6. Explain the mechanism of free radical substitution reaction of alkanes.
- 7. What is Williamson's synthesis. Add a note on Zeisel's method.
- 8. Explain the acidity of phenols.
- 9. What is diazotization reaction. Mention any two reactions of diazonium salts.
- 10. Explain briefly malonic esters and mention its importance in synthesis.
- 11. Explain Bayer's strain theory.
- 12. Classify alcohols. Mention any two methods for the preparation of different classes of alcohols
- 13. Explain fries rearrangement.
- 14. Explain hyper conjugation and resonance with examples.
- 15. Explain the reaction and mechanism of benzoin condensation reaction.
- 16. Explain Saytzeff's rule for elimination reactions.
- 17. Mention the cis-hydroxylation and polymerization reactions in alkenes.
