QP CODE: 102006 (OLD SCHEME) Reg. No:

First Year B.Pharm Degree Supplementary Examinations December 2017 PHARMACEUTICAL CHEMISTRY - II

(Organic Chemistry)

(2010 - Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Discuss in detail inductive effect and mesomeric effect. Cite appropriate examples.
- 2. Nucleophilic substitution reaction in alkyl halide.
- 3. Explain in detail the nucleophilic addition reactions of carbonyl compounds.

Short notes (14x5=70)

- 4. Carbocation and its stability.
- 5. Give one method of preparation for alkanes from alkyl halide and ketone.
- 6. Electrophilic addition of alkyl halide in alkenes
- 7. Boiling point of alcohols are higher than their paraffin counterparts (eg. ethanol and ethane). Explain why.
- 8. Oxidtion of 1°, 2° and 3° alcohols.
- 9. Explain the Williamson's synthesis of ethers with reactions.
- 10. Mechanism of cannizzaro reaction.
- 11. Preparation of ethyl acetoacetate and its significance in organic chemistry.
- 12. Preparation of amines from alkyl halides.
- 13. Ziesel's method with reference to ethers.
- 14. Explain in detail the reaction of methyl magnesium bromide with formaldehyde, acetaldehyde and acetone
- 15. 1°, 2° and 3° alcohols from carbonyl compounds using Grignard reagent.
- 16. Fries rearrangement: mechanism.
- 17. Discuss any two method for the preparation of the following: phenol & benzoic acid.
