- Answer all Questions.
- Write equations wherever necessary. .
- Essay

**Time: 3 Hours** 

- 1. Explain Baeyer strain theory, Sache Mohr theory and ring stability of cyclo hexane with its chair and boat conformation.
- 2. Explain Markovnikov's rule and Kharasch effect with suitable examples in alkenes.
- 3. Explain the mechanism of Reformatsky's reaction

### Short notes

- 4. Describe the method for formation of metal acetylides and explain the stereospecific reduction of alkynes.
- 5. Describe acetoacetic esters and its importance in synthesis.
- 6. Explain the mechanism of free radical substitution reaction in alkanes
- 7. What is Perkins reaction. Explain with mechanism.
- 8. Explain the basicity of amines.
- 9. Explain the acidity of carboxylic acids and add a note on dicarboxylic acids.
- 10. Explain the replacement reaction of hydroxyl group by halogens in alcohols.
- 11. Explain electromeric and mesomeric effects in organic molecules.
- 12. Mention about the relative reactivities of carbonyl compounds and any two methods of preparation of them.
- 13. Explain Walden's inversion and any three general methods of preparation of alcohols.
- 14. Define hyper conjugation and explain stability of conjugated dienes.
- 15. Hoffmann's degradation of amides
- 16. Explain the effect of halogen on electrophilic aromatic substitution.
- 17. Mention any two methods of synthesis of nitriles and explain its reactivity.

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# QP CODE: 102006 (OLD SCHEME)

First Year B.Pharm Degree Supplementary Examinations, August 2016

## **PHARMACEUTICAL CHEMISTRY - II**

(Organic Chemistry)

# (2010 - Scheme)

# Total Marks: 100

Aldol condensation

(3x10=30)

(14x5=70)

Reg. No: .....