First Year B.Pharm Degree Supplementary Examinations June 2017

PHARMACEUTICAL CHEMISTRY - II

(Organic Chemistry)

(2010 - Scheme)

Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary. ٠

Essav

- 1. Explain nucleophilic aliphatic substitution reactions with suitable examples
- 2. Explain the mechanism involved in benzoin condensation and Cannizzaro's reaction
- 3. Explain the method of preparation and any three synthetic reactions of acetoacetic esters.

Short notes

- 4. Explain Bayer's strain theory
- 5. Stability of conjugated dienes
- 6. Mechanism of peroxide effect
- 7. List any five differences between SN₁ and SN₂ reaction
- 8. Explain the hybridization and shape of alkanes
- 9. Explain different types of isomerism with examples
- 10. What is Fries rearrangement. Explain with mechanism
- 11. Explain the 1, 4 addition reaction and stability of alkadienes
- 12. Explain esterification reaction with mechanism
- 13. Williamson's synthesis
- 14. Explain mesomeric and electromeric effect in organic molecules
- 15. Relative reactivities of 1⁰, 2⁰ and 3⁰ alcohols
- 16. List any two methods for the preparation of aldehydes and ketones

17. Huckle's rule

(3x10=30)

Total Marks: 100

(14x5=70)