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Second Year B.Pharm Degree Examinations - October 2012

PHARMACEUTICAL CHEMISTRY III (Advanced Organic Chemistry)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. How will you prepare asymmetric compounds by stereo-selective method. Explain with an example
- 2. Define and classify heterocyclic compounds. Mention its nature and nomenclature in detail
- 3. Differentiate oxidation and reduction reactions. Describe the mechanism of birch reduction and oxidation with perchloric acid.

Short notes (14x5=70)

- 4. Explain the structure, nomenclature and resonance structures of anthracene
- 5. Describe the Schmidt rearrangement
- 6. Explain the reaction and mechanism of hydrazine reduction
- 7. Define stereoisomerism and give three examples of stereoisomer
- 8. Discuss the nucleophilic substitution reactions of thiazole
- 9. Stereochemistry of oximes
- 10. Modern theory of double bonds
- 11. Define the following terms with an example Relative configuration Absolute configuration
- 12. Explain the mechanism and applications of ciemmenson's reduction
- 13. Discuss the structure and chemical reactions of oxepines
- 14. Explain the method of preparation of acridine
- 15. Mention the catalysts used in hydrogenation reactions and mention examples of such reactions
- 16. List out the various methods used for the resolution of racemic mixtures
- 17. Discuss the Darzen's reaction and its application in synthesis
