# QP CODE: 201006 (OLD SCHEME)

Second Year B.Pharm Degree Supplementary Examinations - July 2016

## PHARMACEUTICAL CHEMISTRY III (Advanced Organic Chemistry) (2010 SCHEME)

### Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

#### Essay

- 1. Define and explain the theory of tetrahedral carbon with an example
- 2. Explain any three method of preparation of imidazole and pyrimidine with reactions.
- 3. Explain the reaction and mechanism of Mannich reaction and Beckmann rearrangement

#### Short notes

- 4. The important electrophilic substitution reactions of phenanthrene
- 5. Meerwin-pondroff reduction
- 6. Walden inversion theory
- 7. Basicity of pyridine
- 8. Describe the sequence rule
- 9. Stereochemistry of biphenyl compounds
- 10. Nucleophilic substitution reactions of furan
- 11. Explain about stereo mutation
- 12. What are E&Z, R&S isomers. Explain with examples
- 13. List out any three oxidizing agents and explain its role in synthesis.
- 14. Explain the structure and nomenclature of azepine, diazepine, oxepine, isoxazole and pheothiazine
- 15. Aromaticity of naphthalene
- 16. Explain the various methods of preparation of pyrrole
- 17. Lexicon elements of symmetry

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(3x10=30)

(14x5=70)

# Total Marks: 100

Reg. No: .....