| QP CODE: 201006 (OLD SCHEME) Reg. No: |
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Second Year B.Pharm Degree Supplementary Examinations February 2017

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

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Mention the definition, reaction, mechanism and applications of Birch reduction and Hoffmann rearrangement
- 2. Describe the stereochemistry of cyclic compounds
- 3. What are conformational isomers and write in detail about conformational analysis

Short notes (14x5=70)

- 4. Explain the Schmidt rearrangement with mechanism
- 5. Any three reactions given by pyrimidine
- 6. Give any three methods of preparation of furan
- 7. Explain the various methods of nomenclature of geometrical isomers
- 8. Sequence rule for assigning configuration of optical isomers
- 9. Synthesis of isoxazole
- 10. Give reasons for the following
 - Pyrrole undergoes electrophilic substitution at 2nd position
 - Pyridine undergoes nucleophilic substituton at 2 nd and 4 th position
- 11. Define and explain plane of symmetry
- 12. Explain the aromatic character of naphthalene
- 13. Describe the resonance structures of naphthacene
- 14.List out any three reducing agents and explain its role in synthesis
- 15. Lexicon elements of symmetry
- 16. Explain DL system of nomenclature and mention its disadvantages
- 17. Compare and contrast Clemmensen reduction and Wolf Kishner reduction
