Second Year B.Pharm Degree Supplementary Examinations - April 2014

PHARMACEUTICAL CHEMISTRY III (Advanced Organic Chemistry)

Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

Essay

- 1. Discuss on optical isomerism giving emphasis to the resolution and recemisation.
- 2. Classify heterocyclic compounds. Mention the properties and reactions of six membered ring systems.
- 3. What is conformation and configuration and explain how they are analyzed.

Short notes

- 4. Explain the aromatic character, resonance structures and electrophilic substitution of phenanthrene.
- 6. Narrate the mechanism and applications of Birch reduction.
- 7. Discuss the stereochemistry of amines.
- 8. Schimdt rearrangement explain.
- 9. Michael addition reaction.
- 10. Mention the important reactions of quinoline and oxazole.
- 11. Narrate stereo specific and stereo selective synthesis with suitable examples.
- 12. Explain the mechanism of reduction taking place with hydrazine and its derivatives.
- 13. Mention the mechanism of oxidation with lead tetra acetate and explain where it is applied.
- 14. Mention the preparation and important reactions of acridine basic moiety.
- 15.Discuss the nature and nomenclature of geometrical isomers
- 16. Comment on the stereochemistry of oximes.
- 17. Discuss the resonance structures of polynuclear hydrocarbons.

Total Marks: 100

(3x10=30)

(14x5=70)

Reg.No: