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## Second Year B.Pharm Degree Supplementary Examinations December 2017

## PHARMACEUTICAL CHEMISTRY III

(Advanced Organic Chemistry)

## (2012 Scheme)

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay (3x10=30)

- 1. Elaborate on the structure, nomenclature, aromaticity and reactions of anthracene.
- 2. Classify heterocyclic compounds with suitable examples. Describe the preparation and reactions of pyridine.
- 3. Discuss in detail on R-S notation and E-Z notation with suitable examples.

Short notes (14x5=70)

- 4. Define stereo-isomerism. List out any three evidences to explore the tetrahedral nature of carbon.
- 5. What is resolution of racemic modification and explain the methods in brief.
- 6. Explain the modern theory of double bonds.
- 7. Explain asymmetric synthesis with example.
- 8. Stereochemistry of oximes.
- 9. Explain the mechanism and any two applications of Mannich reaction.
- 10. What is the general reaction of Meerwin-Pondroff reduction and explain the mechanism.
- 11. What are the important reagents that help in birch reduction and how aromatic compound is converted to aliphatic diene.
- 12. Skaraup synthesis of Quinoline
- 13. Discuss the basicity of pyrrole.
- 14. Various reactions and nature of imidazole.
- 15. Nomenclature and preparation of oxazole and isoxazole.
- 16. Aromaticity, reactivity and resonance forms of naphthalene.
- 17. Mention the structure, molecular formula of diazepine, dibenzazepine, azepine, quinolone and quinazolone.

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