

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary  
Examinations April 2021  
Pharmaceutical Organic Chemistry III**

**(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Discuss the reaction, mechanism and applications of Beckmanns rearrangement and Birch reduction.
2. Explain methods of determination of configuration of Geometrical isomers.

**Short Notes**

**(7x5=35)**

3. Write in detail about stereoselective synthesis (Reactions).
4. Explain relative aromaticity of Thiophene, Furan, Pyrrole.
5. Give any two methods for the synthesis and medicinal uses imidazole and furan
6. Explain Nomenclature of Cis, trans isomers.
7. Explain conformational isomerism in cyclohexane.
8. Describe the electrophilic substitution reactions of quinoline and indole.
9. Explain partial asymmetric synthesis.

**Answer Briefly**

**(10x2=20)**

10. Write any one method of synthesis of indole.
11. Dakin's reaction
12. Explain the chemical structure and uses of azepine and Pyridine.
13. Geometrical isomerism.
14. Explain the synthetic importance of Clemmensen reduction.
15. Why pyrrole is more reactive in electrophilic substitution than benzene.
16. Explain any one method of synthesis of azepines.
17. Explain the chemical structure of quinoline and acridine.
18. Define achiral molecule.
19. Explain the difference between d, l and D, L notations.

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