

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations  
December 2019**

**Pharmaceutical Organic Chemistry III**

**(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Explain the various conformational isomers in n-Butane and add a note on their relative stabilities.
2. Give two methods for synthesis and four reactions for Indole and Isoquinoline.

**Short Notes**

**(7x5=35)**

3. Compare the aromaticity of pyrrole, thiophene and furan.
4. Explain the stereochemistry of biphenyls.
5. Asymmetric synthesis.
6. What is a chiral molecules. Explain enantiomerism with suitable examples.
7. Explain the mechanism involved in Claisen Schmidt condensation.
8. Explain the elements of symmetry.
9. Wolff Kishner reduction.

**Answer Briefly**

**(10x2=20)**

10. Outline chichibabin reaction for quinoline.
11. Newman projection formula
12. Compare the basicity of pyrrole with pyridine.
13. Birch reduction.
14. Give the reduction reaction for pyridine.
15. Darkin reaction
  
16. Define Cis Trans isomerism with examples
17. Mention the importance of Clemmensen reduction.
18. Define racemic modification and resolution.
19. Define configuration and mention its types.

\*\*\*\*\*