

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Regular/Supplementary
Examinations February 2024
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. Explain racemic modification and the methods for the resolution of racemic mixtures with examples.
2. Elaborate on geometrical isomers and the methods of determining the configuration of geometrical isomers.

Short Notes

(7x5=35)

3. Explain chiral and achiral molecules with examples.
4. Explain syn and anti-system of nomenclature of geometrical isomers.
5. Give the methods of synthesis, reactions and uses of thiophene.
6. What are heterocyclic compounds. Classify them with examples.
7. Explain Skraup synthesis of quinoline with the mechanism.
8. Explain the synthesis and chemical reactions of indole.
9. Explain the mechanism of Schmidt rearrangement.

Answer Briefly

(10x2=20)

10. What are the different conformational isomers of cyclohexane.
11. Partial asymmetric synthesis.
12. Atropisomerism.
13. Cis-trans system of geometrical isomers.
14. Explain any one method of synthesis of furan.
15. Explain Chichibabin reaction.
16. Give the synthesis and uses of acridine.
17. Basicity of pyridine.
18. Metal hydride reduction.
19. Wolff-Kishner reaction.
