

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Supplementary Examinations
May 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. Define optical activity and racemic modification. Discuss in detail different methods for the resolution of racemic mixture.
2. Explain the method of synthesis and reactions of quinoline and thiazole.

Short Notes

(7x5=35)

3. Explain partial asymmetric synthesis.
4. Explain stereoisomerism in biphenyl compounds.
5. Explain relative aromaticity, reactivity and basicity of pyrrole.
6. Explain the basicity of pyridine.
7. Explain the mechanism of Dakin reaction with its synthetic applications.
8. Explain Oppenauer oxidation.
9. Explain the DL system of nomenclature of optical isomers with its limitations.

Answer Briefly

(10x2=20)

10. Enantiomers.
11. Sequence rule.
12. Conformational isomerism of cyclohexane.
13. What is atropisomerism.
14. Explain any one method of synthesis of purine.
15. Give structure of any two fused hetero cyclic compounds.
16. Medicinal importance of imidazole and pyrazole.
17. Explain any one method of synthesis of isoquinoline.
18. Synthetic applications of Clemmensen reduction.
19. Schmidt rearrangement.
