QP Code: 421006 **Reg. No…….**

Fourth Semester B.Pharm Degree Regular/Supplementary Examinations June 2022
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 resolution of racemic mixture with suitable example.
2. Discuss the reaction, mechanism and applications of Oppenauer oxidation and Wolff Kishner reduction.

Short Notes **(7x5=35)**

3. Explain conformational isomerism in Ethane.
4. Give two methods for synthesis of Oxazole and pyrrole.
5. Describe the electrophilc substitution reactions of Isoquinoline and acridine.
6. Explain stereoisomerism in biphenyl compounds.
7. Explain Diastereoisomerism
8. Give any two methods of synthesis and medicinal uses of quinoline and pyridine.
9. Explain metal hydride reduction reactions and their synthetic importance.

Answer Briefly **(10x2=20)**

10. Explain any one method of synthesis of Thiazole.
11. Optical activity.
12. What are meso compounds.
13. Explain the synthetic applications of Claisen – Schmidt condensation.
14. Explain the chemical structure of purine and pyrimidine.
15. Achiral molecule.
16. Sequence rule.
17. Cis–trans isomers.
18. Explain the any one method of synthesis of Furan.
19. Explain the synthetic importance of Dakin reaction.

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