

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Supplementary Semester Examination – Winter 2023

<https://pharmacyindia.co.in/>

Date: 02/01/2024

Course : B. Pharmacy

Subject Name : Pharmaceutical Organic Chemistry-III

Max Marks : 75

Sem: IV

Subject Code : BP401T

Duration : 3 Hr.

Instructions:

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1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

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Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- i) Define isomerism. Enlist its classification.
- ii) Calculate optical isomers of compound having 2 chiral carbon atoms.
- iii) Differentiate between stereospecific and stereoselective reaction.
- iv) Define cis and trans isomers with example. <https://pharmacyindia.co.in/>
- v) Draw the structure of furan. Give any two medicinal uses with example.
- vi) Write any one chemical reaction of thiophene.
- vii) Draw the structure and write any two medicinal uses of purine.
- viii) Write any one method of synthesis of Imidazole. <https://pharmacyindia.co.in/>
- ix) Define Oppenauer oxidation reaction with example.
- x) Define Clemmensen reduction reaction with general reaction.

Q. 2. Long Answers (Answer 2 out of 3) (2 x 10) = 20

- i) Explain pyrrole in detail. <https://pharmacyindia.co.in/>
- ii) Discuss synthesis, reactions and medicinal uses of thiazole.
- iii) Explain the concept of optical isomer with its nomenclature systems.

Q. 3. Short Answers (Answer 7 out of 9) (7 x 5) = 35

- i) Illustrate the concept of resolution of racemic mixture with its methods.
- ii) Write a note on atropisomerism. <https://pharmacyindia.co.in/>
- iii) Explain determination of configuration of geometrical isomer.
- iv) What is conformer? Explain conformational isomerism in Cycloalkane.
- v) Discuss relative aromaticity of pyrrole, furan and thiophene.
- vi) Outline the methods of synthesis of quinoline.
- vii) Comment on basicity of pyridine. <https://pharmacyindia.co.in/>
- viii) Explain principle, reaction and mechanism of Wolf Kishners reduction.
- ix) Give the reaction and mechanism of Metal hydride reduction.

-----END OF THE PAPER-----

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