B.Sc. DEGREE EXAMINATION,APRIL 2020
III Year V Semester
Organic Chemistry - I

Time : 3 Hours **Max.marks :60**

Section A $(10 \times 1 = 10)$ Marks

Answer any **TEN** questions

1. Give Wolf Kishner reduction.
2. How is Ketone reduced with LAH?
3. What is the importance of active methylene group?
4. What is meant by Tautomerism?
5. What do you mean by the term Conformers?
6. Show one example for erythro and threo representations.
7. What are Enantiomers?
8. What are the conditions for optical activity?
9. Define Racemisation.
10. Give two preparations of Furan.
11. What happens when nitro compound is treated with acid?
12. Give the synthetic application of Diazonium salt.

Section B $(5 \times 4 = 20)$ Marks

Answer any **FIVE** questions

13. Write a note on a) MPV reduction b) Wittig reaction.
14. Give the preparation and properties of malonic ester.
15. Write a note on Keto-Enol Tautomerism.
16. Explain the conformational analysis of ethane.
17. Discuss Cahn Ingold-prelog rules.
18. Explain Walden Inversion.
19. Explain the aromaticity of hetrocyclic compounds.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Discuss the mechanism of the following: a) Aldol condensation b) Cannizaro reaction
21. Discuss the synthetic uses of Acetoacetic ester.
22. Explain the conformation of cyclohexane.
23. a) Explain any two resolution methods. b) Discuss the geometrical isomerism in maleic and fumaric acids.
24. a) Explain the synthesis of Isoquinoline. b) Give the preparation, properties and uses of Diazoacetic ester.

B.Sc. DEGREE EXAMINATION,APRIL 2020
III Year V Semester
Organic Chemistry - I

Time : 3 Hours **Max.marks :60**

Section A $(10 \times 1 = 10)$ Marks

Answer any **TEN** questions

1. Give Wolf Kishner reduction.
2. How is Ketone reduced with LAH?
3. What is the importance of active methylene group?
4. What is meant by Tautomerism?
5. What do you mean by the term Conformers?
6. Show one example for erythro and threo representations.
7. What are Enantiomers?
8. What are the conditions for optical activity?
9. Define Racemisation.
10. Give two preparations of Furan.
11. What happens when nitro compound is treated with acid?
12. Give the synthetic application of Diazonium salt.

Section B $(5 \times 4 = 20)$ Marks

Answer any **FIVE** questions

13. Write a note on a) MPV reduction b) Wittig reaction.
14. Give the preparation and properties of malonic ester.
15. Write a note on Keto-Enol Tautomerism.
16. Explain the conformational analysis of ethane.
17. Discuss Cahn Ingold-prelog rules.
18. Explain Walden Inversion.
19. Explain the aromaticity of hetrocyclic compounds.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Discuss the mechanism of the following: a) Aldol condensation b) Cannizaro reaction
21. Discuss the synthetic uses of Acetoacetic ester.
22. Explain the conformation of cyclohexane.
23. a) Explain any two resolution methods. b) Discuss the geometrical isomerism in maleic and fumaric acids.
24. a) Explain the synthesis of Isoquinoline. b) Give the preparation, properties and uses of Diazoacetic ester.