

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.

B.Sc. END SEMESTER EXAMINATIONS APRIL-2022

SEMESTER - VI

17UCHCT6014 - Organic Chemistry - II

Total Duration : 3 Hrs.

Total Marks : 60

Section A

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. What happens when ethanol is treated with Conc. H_2SO_4 at room temperature and at 0°C ? Explain with equations.
2. Write a note on : Iso-electric Point of amino acids.
3. How will you convert an aldohexose into an aldopentose?
4. How will you synthesize Coniine from α -picoline?
5. Write a note on sigmatropic rearrangement with an example.
6. What happens when 2,3 dimethyl -2,3 - but anediol is treated with mineral acid? Explain with equation.
7. Discuss the types of nucleic acids and their components.
8. Predict the product when Quinones is treated with (a) 1,3 - Butadiene (b) HCl

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. a. Distinguish Acetaldehyde and acetone .
b. Discuss the mechanism of Aldol condensation.
10. a. Briefly discuss the primary structure of proteins.
b. How are α -amino acids prepared? Discuss the important reactions of α -amino acid.
11. a. Deduce the cyclic structure of D-Glucose.
b. Briefly explain the reactions and structure of sucrose.
12. Explain in detail about the structural elucidation of Citral.
13. Explain with mechanism
(i) Benzilic acid rearrangement (ii) Beckmann rearrangement
