

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.CND - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - II

20UNDAT2002 - Allied Chemistry - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Give any three chemical properties of fructose.
2. Discuss about the open and ring structures of glucose.
3. What are called as Amino acids? and what is peptide bond?
How will you prepare dipeptide?
4. Explain the components present in DNA and RNA.
5. What are 'Analgesics' and 'Antipyretics'? Give an example for each one.
6. Explain the purification of liquids by distillation method with neat diagram.
7. Describe the purification process of sublimation with neat diagram.
8. Explain the process of thin layer chromatography. (5)

Section C

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

9. a. How will you convert glucose into fructose. (5)
b. Write down the properties of Starch and Sucrose. (5)
10. Give the synthesis of glycine using Strucker synthesis and Gabriel-Phthalimide synthesis. (10)
11. Discuss the causes and treatment of Cancer and AIDS. (10)
12. Describe the purification process done by fractional and steam crystallization methods with neat diagram. (10)
13. Illustrate the working method of column chromatography. (10)
