

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. How will you convert glucose into fructose?
2. Discuss about the properties of starch and cellulose.
3. Write down two methods of preparation of  $\alpha$  - amino acid.
4. Distinguish between DNA and RNA.
5. What are proteins? Discuss about the classification based on their composition and shape.
6. Write down the biological functions of proteins.
7. What are called as 'Local Anaesthetics' and 'General Anaesthetics'?  
Give an example for each one.
8. Discuss the causes of diabetes and cancer.

### Section C

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

9. Describe any five chemical properties of fructose.
10. a. Prepare dipeptide using Bergmann method. (5)  
b. Give any three chemical properties of  $\alpha$  - amino acid. (5)
11. What are nucleic acids? And explain the components present in DNA and RNA.
12. Define the following terms and give an example for each one.  
a. Tranquilisers      b. Hypnotics      c. Analgesics.      d. Antipyretics
13. Discuss the causes and treatment methods of cancer and AIDS.

\*\*\*\*\*