

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 - APRIL 2025

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. Describe the classification of carbohydrates with one example of each type.
2. Explain the types of anesthetics with suitable examples.
3. Apply suitable methods for the separation and purification of solid substance to vapour with proper explanation.
4. Predict and describe the chromatographic technique which is used to purify the compounds based on the principle of partition method?
5. Explain the preparation of dipeptide by Bergman method.
6. Relate the cause and treatment of diabetics.
7. Illustrate the steps involved in crystallization method for the purification of solids.
8. Distinguish the paper and thin layer chromatography.

Section C

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

9. i) Sketch the open and ring structure of glucose
ii) Define mutarotation.
iii) Discuss the properties of starch. (2+2+6)
10. Classify the proteins according to the composition and the biological function.
11. i) What are antipyretics? Give example.
ii) Determine the cause and treatment of cancer (3+7)
12. Apply the suitable principle and explain the following methods
i) Fractional distillation ii) Steam distillation (5+5)
13. i) Define chromatography.
ii) Explain the principle and application of column chromatography. (2+8)
