

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.NFSMD - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - II

20UFMAT2002 - Allied Chemistry - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Convert glucose to fructose and vice versa.
2. Prepare dipeptide using the Bergman method.
3. Compare local anesthetics and general anesthetics with examples.
4. Sketch and explain the process of fractional distillation.
5. Illustrate the principle and application of paper chromatography.
6. Predict and explain the usage of the following drugs
i) Analgesics ii) Antipyretics iii) Tranquilizers.
7. Enumerate the properties of cellulose and its derivatives.
8. Distinguish DNA and RNA.

Section C

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

9. Illustrate the preparation and reactions of glucose.
10. Sketch any one preparation and any eight properties of alpha amino acids.
11. List the causes of diabetes and cancer. Elaborate the methods of treatment.
12. Discuss the purification techniques of crystallization and sublimation.
13. Compare the principle and applications of column and thin-layer chromatography.
