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 NOVEMBER-2022
SEMESTER - II

20UNDAT2002 - Allied Chemistry - II

Total Duration : 2 Hrs 30 Mins. Total Marks : 60

Section A

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

1. Describe the open and ring structure of glucose.
2. Explain the properties of cellulose and its derivatives.
3. Classify amino acids.
4. Describe the properties of alpha amino acids.
5. Explain the various causes of diabetic conditions.
6. Show, using an appropriate example, how vacuum distillation aids in the separation of heavier materials at lower temperatures.
7. What is paper chromatography? Describe different types of paper chromatographic techniques.
8. Discuss the principle & application of TLC.

Section B

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

9. Recommend a suitable method to convert glucose into fructose and vice versa.
10. Outline the classification of proteins based on composition. Explain Bergman method to prepare dipeptide
11. Ascertain treatment methodologies for cancer and AIDS.
12. Describe any two separation techniques.
13. Explain the principle and applications of column chromatography with a neat sketch.

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