

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 - III

20UNDAT3003 - Fundamentals of Biochemistry

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Discuss the role of co enzymes and prosthetic groups in enzyme activity.
2. Describe the factors influencing enzyme activity.
3. Illustrate the structure of any two monosacharides.
4. Discuss the two types of secondary structure of proteins.
5. Explain any two reactions of amino groups of amino acids.
6. Give the reactions of ketogenesis.
7. Interpret the in-born errors in alkaptonuria and galactosemia.
8. Give the structures of any two nucleotides.

Section C

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

9. Explain the classification of enzymes with appropriate examples.
10. Elucidate glucose oxidation through glycolysis.
11. Discuss urea cycle with a neat flow diagram.
12. Elucidate the pathway for biosynthesis of cholesterol.
13. Deduce the inter relationship between carbohydrate, fat and proteinmetabolism.
