

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. Explain the mechanism of action of any two B vitamins.
2. Describe the factors influencing enzyme activity.
3. Elucidate any two general reactions of carbohydrates.
4. Give the precipitation and decarboxylation reactions of proteins.
5. Sketch the different types of secondary structures of proteins.
6. Describe the β oxidation of fatty acids.
7. Interpret the in-born errors in fructosuria and galactosemia.
8. Discuss about Phenyl ketonuria and alkaptonuria.

Section C

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

9. Decipher the importance of enzymes in human nutrition.
10. Elucidate glucose oxidation through glycolysis.
11. Discuss the chemical properties of amino acids due to amino and carboxyl groups.
12. Elucidate the pathway for biosynthesis of cholesterol.
13. Deduce the inter relationship between carbohydrate, fat and protein metabolism.
