

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 NOVEMBER -2023

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. Classify enzymes.
2. Differentiate between prosthetic group and co-enzyme.
3. Illustrate the structures of fructose and maltose.
4. Describe the significance of gluconeogenesis.
5. Explain the reactions of transamination and decarboxylation.
6. Discuss about the Classification of aminoacid based on the fate of their carbon skeleton.
7. Describe ketogenesis.
8. Write a note on (i) fructosuria (ii) alkaptonuria

Section C

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

9. Describe the different mechanisms of actions of enzymes.
10. Sketch the glycolytic pathway and relate with the energy production.
11. Elaborate the urea pathway.
12. Describe the biosynthesis of cholesterol.
13. Appraise on the inter relationship between carbohydrate, fat and protein metabolism.
