

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 - III

**21UFMAT3003 - Nutritional Biochemistry**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### Section B

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

1. Discuss the various classification of Enzymes.
2. Convert glucose to pyruvic acid.
3. Explain the inter-relationship between carbohydrate and fat.
4. Explain the various types and functions of carbohydrate.
5. Describe the components of nucleic acid.
6. Illustrate the following with examples
  - (i) Hydrolysis reaction of protein
  - (ii) Denaturation of protein
  - (iii) Coagulation of protein
7. Depict the degradation of cholesterol to bile acid.
8. Enumerate the functions of lipo proteins

### Section C

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

9. Explain the various factors affecting enzyme activity.
10. Discuss the different types of structure of proteins.
11. Elaborate the biosynthesis of cholesterol.
12. Explain the hormonal regulation of protein metabolism.
13. Enumerate the pentose phosphate pathway.

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