

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 - NOV'2024

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. Describe the Electron transport chain.
2. Classify enzymes.
3. Describe ATP production by glycolysis.
4. Elucidate the Urea cycle.
5. Give the transamination and deamination reactions.
6. Elucidate the pathway for the biosynthesis of fatty acids.
7. Distinguish the structure and functions of different types of DNA.
8. Differentiate the different types of RNA.

### **Section C**

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

9. Illustrate the types of enzymes inhibition.
10. Sketch the reactions of the citric acid cycle along with energy production.
11. Decipher the nutritional and structural classification of amino acids.
12. Elucidate the pathway for biosynthesis of cholesterol.
13. Infer the inter relationship between carbohydrate, fat and protein metabolism.

\*\*\*\*\*