

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. END SEMESTER EXAMINATIONS NOVEMBER-2022

SEMESTER - III

21UFMAT3003 - Nutritional Biochemistry

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. Explain the classification of enzymes with examples.
2. Describe the mechanism of glucose homeostasis in blood.
3. Relate the abilities of insulin and glucagon to regulate carbohydrate metabolism.
4. Explain the nutritional classification of aminoacids.
5. Explain the classification of lipids.
6. Give the reactions of urea cycle.
7. Describe the types, structure and functions of RNA.
8. Differentiate between the different high energy compounds.

Section B

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

9. Describe the pathway for glucose oxidation.
10. Relate the hierarchy of protein structure to their structure.
11. Examine the inter relationship between carbohydrate, fat and protein metabolism.
12. Relate the reactions of electron transport chain to the number of ATP produced.
13. Compare the pathways of anabolism and catabolism of fatty acids.

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