

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.

M.Sc. - END SEMESTER EXAMINATIONS APRIL - 2022

SEMESTER - II

20PNDCT2006 - Nutritional Biochemistry

Total Duration : 3 Hrs.

Total Marks : 60

Section A

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

1. What are free radicals? How are they formed?
2. Classify amino acids.
3. Explain the types and functions of essential amino acids.
4. What are the functions of nucleic acids?
5. Describe the process of gluconeogenesis.
6. Explain the process of catabolism of essential amino acids.
7. Classify lipoproteins and give its functions.
8. Differentiate between DNA and RNA.

Section B

Part A

Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Explain the mechanism of enzyme action and factors affecting enzymatic activity.
10. Explain the process of TCA cycle with the energetics.
11. Illustrate the process of transamination, oxidative deamination and urea cycle.
12. Describe the process of beta oxidation of fatty acids.

Part B

Compulsory question ($1 \times 10 = 10$ Marks)

13. Justify the role of hormones in regulation of carbohydrate , protein and fat metabolism.
