

**M.Sc DEGREE EXAMINATION, APRIL 2019**  
**I Year II Semester**  
**Nutritional Biochemistry**

**Time : 3 Hours**

**Max.marks :75**

**Section A** ( $10 \times 2 = 20$ ) Marks

Answer any **TEN** questions

1. Functions of Co-enzymes.
2. What is meant by Oxidation process in Energy cycle?
3. Glycolysis-Define.
4. What is Gluconeogenesis?
5. List two functions of Lipo proteins.
6. Mention the significance of EFA.
7. Define Urea Cycle.
8. Classify Amino Acids.
9. List the types of RNA.
10. What do you mean by Recombinant technology?
11. What are Ketone bodies?
12. Define Deamination.

**Section B** ( $5 \times 5 = 25$ ) Marks

Answer any **FIVE** questions

13. Give a detailed explanation about the Respiratory chain.
14. Draw and represent the HMP Pathway.
15. Explain in detail about the types and functions of Lipo proteins.
16. Elaborate the process of Transamination of the amino acids.
17. Give a schematic representation about the Recombinant DNA technology.
18. Draw and label the structure of DNA and explain its functions.
19. Explain the role of High energy phosphates in Biological oxidation.

**Section C** ( $3 \times 10 = 30$ ) Marks

Answer any **THREE** questions

20. Narrate the mechanism of phosphorylation in detail.
21. Explain in detail the process of Citric acid Cycle.
22. Elaborate the process of Beta-Oxidation of Fatty acids.
23. Give a detailed explanation about the process of Urea Cycle.
24. Define RNA. Explain the Translation process of RNA.

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