

B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
II Year III Semester
Allied - Paper III
BIOCHEMISTRY

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. What are Co-Enzymes? Give two examples.
2. Define Prosthetic group with examples.
3. What are carbohydrates?
4. Define Gluconeogenesis.
5. What is meant by Transamination?
6. Define denaturation.
7. Write a note on MUFA.
8. Define ketogenesis.
9. What are nucleic acids? Name the types of nucleic acids.
10. Give the structure of nucleotide.
11. What is Galactosemia?
12. Define Nutrigenetics and Nutrigenomics.

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

Answer any **FIVE** questions

13. Give any five classifications of enzymes.
14. Brief about Electron Transport Chain.
15. Explain hydrolysis of proteins.
16. Explain the significance of Pentose Phosphate cycle.
17. List the functions of purines and pyrimidines
18. Differentiate between Phenylketonuria and Alkaptonuria.
19. Explain β -Oxidation of fatty acids.

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

Answer any **THREE** questions

20. Elaborate on the factors affecting enzyme action.
21. Discuss in detail about glycolysis.
22. Explain the structure of protein.
23. How is cholesterol synthesised in our body?
24. Describe the interrelationship between Carbohydrates, Proteins and Fat metabolism.

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