

**B.Sc DEGREE EXAMINATION, APRIL 2019**  
**II Year III Semester**  
**Biochemistry**

**Time : 3 Hours**

**Max.marks :75**

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

Answer any **TEN** questions

1. What are Enzymes? Give two examples.
2. Differentiate between Co-enzymes and prosthetic groups.
3. Define Gluconeogenesis.
4. What is meant by Electron Transport Chain?
5. Define Transamination.
6. Write any two fate of carbon skeleton of amino acids.
7. Give the chemical composition of fat.
8. Define ketogenesis.
9. What are nucleic acids?
10. Differentiate between nutrigenetics and nutrigenomics.
11. What is galactosemia?
12. Write two reactions of monosaccharides.

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

Answer any **FIVE** questions

13. Explain the classification of Enzymes.
14. Describe glycolysis in detail.
15. Explain Urea cycle.
16. Enumerate on the steps involved in  $\beta$ -oxidation of fatty acids.
17. What are nucleotides? Explain the functions of purines and pyrimidines.
18. Briefly explain the role of vitamin B as co-enzymes.
19. Explain on Hydrolysis of protein.

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

Answer any **THREE** questions

20. Enumerate on the factors affecting enzyme action.
21. Elaborate on TCA cycle with energy production.
22. Discuss on the types of protein structures.
23. How are cholesterol synthesised in our body?
24. Explain on inborn errors of protein metabolism.

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