

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

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Define biochemistry.
2. Define enzymes.
3. What are monosaccharide and disaccharides?
4. Define gluconeogenesis.
5. What are Essential and Non- essential amino acids?
6. What is coagulation of proteins?
7. What are Essential and Non essential fatty acids?
8. Define ketogenesis.
9. What is aminoaciduria?
10. What are nucleic acids?
11. Define nutrigenomics.
12. What are Co-enzymes?

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

Answer any **FIVE** questions

13. What is the role of B-vitamin?
14. Explain Glycolysis.
15. What is transamination and deamination? Brief on it.
16. How is aceto acetate formed?
17. Explain the structure and functions of purines.
18. Give the classification of enzymes.
19. Brief on Hexose Monophosphate Pathway.

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

Answer any **THREE** questions

20. Explain the mechanism on enzyme action and what are the factors affecting enzymatic activity?
21. Elaborate on the TCA cycle along with the ATP molecules produced.
22. Explain Urea cycle and what is the fate on the carbon skeleton of amino acids?
23. Explain the B-oxidation of fatty acids.
24. Explain the inborn errors of metabolism- fructosuria, galactosemia, PKU and alkaptonuria.

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