

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 Co-enzymes.
3. What are disaccharides and oligosaccharides?
4. Define glycolysis.
5. Define Essential amino acids & non essential amino acids.
6. What are peptides?
7. Define ketogenesis.
8. What are Essential and Non essential fatty acids?
9. What are nucleic acids?
10. What is aminoaciduria?
11. Define gluconeogenesis.
12. What is denaturation and precipitation of proteins?

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

Answer any **FIVE** questions

13. Explain the role of B-vitamins as co-enzymes.
14. Explain HMP pathway.
15. Explain the determination of amino acid sequence.
16. Give the classification of fats.
17. Explain β oxidation of fatty acids.
18. Classify enzymes.
19. What is transamination and deamination? Brief on it.

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

Answer any **THREE** questions

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

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