

**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. Define Enzyme.
2. Note on prosthetic group.
3. What are sugars? Give two examples.
4. Give the importance of HMP shunt.
5. Histamine.
6. Note on coagulation.
7. Classify fatty acids.
8. Give the structure of cholesterol.
9. What do you mean by in born errors of metabolism? Give one example.
10. Note on ketone bodies.
11. Define peptide bond.
12. Give the role of insulin and glucagon.

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

Answer any **FIVE** questions

13. Explain about Lock and Key model for enzyme catalysed reaction.
14. Explain about TCA cycle.
15. Give a detailed account on Transamination reaction.
16. What are fats? Note on its chemical composition and properties.
17. Explain Galactosemia.
18. Explain tertiary structure of protein.
19. Note on phenyl ketonuria.

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

Answer any **THREE** questions

20. Elaborate on nomenclature and classification of enzyme.
21. Explain about glycolysis and its energetics.
22. Enumerate on primary and secondary structure of protein.
23. Explain cholesterol biosynthesis.
24. Define metabolism. Explain how carbohydrate, protein, lipid metabolism are interlinked.

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