

B.Sc Degree (C.B.C.S.S) Model Examination
Second semester
BIOCHEMISTRY
(For B.Sc. Bioinformatics)

Time: 3 Hours

Total Marks: 80

PART A

Answer any ten questions

Each question carries 2marks

1. Define Saponification number.
2. What is Peptide bond.
3. Explain Mutarotation
4. What are Nucleosides
5. Comment on Ribose sugar
6. Explain Rancidity of fats.
7. Give two essential fatty acids
8. What is lactose intolerance?
9. List out the essential aminoacids
10. What are glycosaminoglycans?
11. What are the general properties of fats.
12. Differentiate between reducing sugar and nonreducing sugar.

(10x2=20)

PART II

(Answer any Six Questions)

Each question carries 5marks

13. Explain the properties of saturated and unsaturated fattyacids
14. What are the forces stabilizing the protein structure?
15. Explain the deficiency diseases of water soluble vitamins.
16. What is isomerism? Explain its types.
17. Give notes on protein folding
18. .Explain the biological significance of fats.
19. What are heteropolysaccharides? Give two examples.
20. Explain the composition of nucleotides.
21. Give notes on the structure of tRNA

(6x5=30)

PART III

(Answer any two Questions)

Each question carries 15 marks

22. Explain the different levels of protein structure.
23. Explain the classification of lipids.
24. Explain the properties and functions of fat soluble vitamins
25. Explain the Watson Crick Model of DNA. Describe the types of RNA and its functions
(2x15=30)