



‘समानो मन्त्रः समितिः समानी’

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 4th Semester Examination, 2023

**CC8-TEA SCIENCE**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions from the following: 1×5 = 5
  - (a) Write one example of pentose sugar.
  - (b) Name one aromatic amino acid.
  - (c) What are the constituent monosaccharide units of sucrose?
  - (d) What is the composition of triglyceride?
  - (e) Name one amino acid which taste sweet.
  - (f) What is the full form of ADP?
  - (g) What is histone protein?
  - (h) What is nucleoside?
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) Write the difference between reducing and non-reducing sugar. 5
  - (b) What are fatty acids? Give some examples of naturally occurring fatty acids and their properties. 1+4
  - (c) Write a brief note on protein and their characteristics. 5
  - (d) Write about the characters of Genetic Code. 5
  - (e) Draw and describe the structure of t-RNA. 5
  
3. Answer any **two** from the following: 10×2 = 20
  - (a) Give a detailed account of different types of carbohydrates and their properties. 10
  - (b) Give a general account of composition, structure and function of biological membrane. 10
  - (c) Describe the double helical structure of DNA. 10
  - (d) Write about the models to describe the formation of Enzyme-substrate complex. 10

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