



'সমানো মন্ত্র: সমিতি: সমানী'

## UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

### 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 the example of a triose sugar.
  - (b) What are the constituent monosaccharide units of lactose?
  - (c) Name one sulphur containing amino acid.
  - (d) Write the name of the bond which joins two monosaccharide units.
  - (e) What is heterochromatin?
  - (f) What is t-RNA?
  - (g) What do you mean by feedback inhibition?
  - (h) What is the full form of ATP?
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) Write a note on the general characteristics of proteins. 5
  - (b) Write a short introduction on Carbohydrates and their occurrence. 5
  - (c) Write a short note on Michaelis – Menten Kinetics. 5
  - (d) Write a note on t-RNA structure. 5
  - (e) Write a short note on Regulatory enzymes. 5
  
3. Answer any **two** questions from the following: 10×2 = 20
  - (a) Write a detailed account of biological membrane. 10
  - (b) Discuss the classification of carbohydrates. Write the overall difference between reducing and non-reducing sugar. 5+5
  - (c) Write in detail about “Avery’s transformation experiment”. 10
  - (d) Write in detail about Watson and Crick’s model of DNA structure. 10

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