



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 2nd Semester Examination, 2022

**CC3-TEA SCIENCE**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Answer any *five* from the following: 1×5 = 5
- (a) Name the family of *Camellia sinensis*.
  - (b) What is the ideal pH of soil for tea plantation?
  - (c) Name one nitrogen fixing bacteria.
  - (d) What do you mean by inter-flush dormancy?
  - (e) Name one vegetative clone of Assam variety.
  - (f) What is the chromosome number of *Camellia sinensis*?
  - (g) What do you mean by winter dormancy?
  - (h) What is ascent of Sap?

**GROUP-B**

2. Answer any *three* from the following: 5×3 = 15
- (a) Write the difference between C<sub>3</sub> and C<sub>4</sub> plants.
  - (b) Give brief description on Glycolysis.
  - (c) What do you mean by photorespiration and photoperiodism?
  - (d) Explain with examples about the tea clones of different tea growing areas of India.
  - (e) What are the different growth patterns in unpruned and pruned tea?

**GROUP-C**

3. Answer any *two* from the following: 10×2 = 20
- (a) Describe the morphology of tea plant with proper sketches.
  - (b) Write a note on history of tea.
  - (c) What is photophosphorylation? Give a detailed account of non-cyclic photophosphorylation. 1+9=10
  - (d) Explain quantitative and qualitative traits of tea plants.

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