



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Major 1st Semester Examination, 2023

UTEAMAJ11001-TEA SCIENCE

INTRODUCTION TO TEA SCIENCE

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** from the following: 1×5 = 5
- (a) What is the chromosome number of diploid tea plant?
 - (b) Name a garden series tea clone of Darjeeling.
 - (c) What is the ideal pH for tea cultivation?
 - (d) Which cell is responsible for Stomatal movement?
 - (e) What is the first stable product of C₃ cycle?
 - (f) What is PPO?
 - (g) Name scientific name of Cambod Tea Plant.
 - (h) What is the name of first tea garden in Darjeeling?
2. Answer any **three** from the following: 5×3 = 15
- (a) What are the bottlenecks for improvement of tea clones? Explain.
 - (b) What are the Soil requirements for tea cultivation?
 - (c) Write a short note on dormancy in tea.
 - (d) Write a short note on the sucking pest of Indian Tea Garden.
 - (e) Give a brief history of China Tea.
3. Answer any **two** from the following: 10×2 = 20
- (a) Write about tea genome. Why genetic diversity of tea is very high? What are the quality traits for selection of tea plant? 4+2+4
 - (b) What is transpiration? Name different types of transpiration. Discuss the factors affecting transpiration. 1+3+6
 - (c) Give a detailed account on the manufacturing process of black tea. 10
 - (d) Describe the morphology of Tea plant with suitable diagram. 10

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