



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 5th Semester Examination, 2023

CC12-TEA SCIENCE

PLANT ECOLOGY AND PHYTOGEOGRAPHY

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) What is food web? 1
 - (b) Define speciation. 1
 - (c) Name two hydrophytes. 1
 - (d) What do you mean by habitat? 1
 - (e) Define consumer in ecosystem. 1
 - (f) What is ecological amplitude? 1
 - (g) Define mutualism. 1
 - (h) What do you mean by continental drift? 1

2. Answer any **three** questions from the following: 5×3 = 15
 - (a) What is food chain? Describe with example. 1+4
 - (b) What is endemism? Name two endemic plants of eastern Himalayas. What is the reason behind high endemism in eastern Himalayas? 1+2+2
 - (c) What is succession? What are different stages of plant succession? 1+4
 - (d) Write about Carbon cycle in ecosystem. 5
 - (e) Draw and describe soil profile. 5

3. Answer any **two** questions from the following: 10×2 = 20
 - (a) Discuss about the interaction between the abiotic and biotic components of ecosystem. 10
 - (b) What is ecological pyramid? Describe different types of pyramid in ecosystem. 10
 - (c) Describe the morphological, anatomical and physiological adaptations of hydrophytes. 10
 - (d) Describe plant succession in xeric condition. 10

—x—