



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 5th Semester Examination, 2022

CC12-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 ecological amplitude?
 - (b) What do you mean by homeostasis?
 - (c) Define ecotone.
 - (d) What do you mean by Shelford law of tolerance?
 - (e) What is edge effect?
 - (f) Name two xerophytes.
 - (g) Name one endemic species of Eastern Himalaya.
 - (h) What do you mean by phytogeographical regions?
2. Answer any **three** from the following: 5×3 = 15
- (a) What is food web? Explain in brief. 5
 - (b) Write a short note on levels of organization in biology. 5
 - (c) Explain nitrogen cycle with suitable diagram. 5
 - (d) Write a note on adaptations of Hydrophytes. 5
 - (e) Write a note on endemism. 5
3. Answer any **two** from the following: 10×2 = 20
- (a) What is ecological dynamics? Write about succession of plant communities in a xeric ecosystem. 2+8
 - (b) Define soil. How soil is formed? Write a short note on soil profile. What are the factors affecting soil formation? 1+4+5
 - (c) Write about different types of ecological pyramid. 10
 - (d) Write on phytogeographical division of India. 10

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