



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 4th Semester Examination, 2022

CC9-BOTANY

PLANT ECOLOGY AND PHYTOGEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any **five** questions: 1×5 = 5
 - (a) Define edge effect. 1
 - (b) What do you mean by homeostasis? 1
 - (c) Explain with example what do you mean by commensalism. 1
 - (d) Define productivity. 1
 - (e) What is plant succession? 1
 - (f) Define ecological dynamism. 1
 - (g) What do you mean by speciation? 1
 - (h) What do you mean by biogeochemical cycle? 1

GROUP-B

2. Answer any **three** questions: 5×3 = 15
 - (a) Write a short note on Hydrological cycle. 5
 - (b) Define Symbiosis. Write a short note on chemical and biological component of Soil. 1+4 = 5
 - (c) Write a short note on Soil Profile. 5
 - (d) With the help of neat labelled diagram, describe the general process of succession. 5
 - (e) Write a short note on the "Theories of Endemism". 5

GROUP-C

3. Answer any **two** questions: 10×2 = 20
 - (a) What do you mean by climax? With labelled diagram, explain Carbon Cycle. 2+8 = 10
 - (b) Explain with examples, the different phytogeographical divisions of India. 10
 - (c) Explain the "Theory of Tolerance". Briefly describe various components of Tundra biome. 3+7 = 10
 - (d) Write short notes on adaptation of plants to: 2½×4 = 10
 - (i) Light; (ii) Temperature; (iii) Wind; (iv) Water.

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