



**2022/TDC(CBCS)/EVEN/SEM/  
BOTHCC-402T/274**

**TDC (CBCS) Even Semester Exam., 2022**

**BOTANY**

**( Honours )**

**( 4th Semester )**

**Course No. : BOTHCC-402T**

**( Plant Ecology and Phytogeography )**

*Full Marks : 50*

*Pass Marks : 20*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

**SECTION—A**

Answer any *ten* questions of the following :  $2 \times 10 = 20$

1. What are the basic concepts of ecology?
2. What do you mean by homeostasis?
3. Distinguish between biotic and abiotic components of environment.
4. What do you mean by hydrological cycle?



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5. What is liquid precipitation of atmosphere? Give example.
6. What are the basic compositions of soil?
7. What is commensalism?
8. What do you mean by ecological adaptation?
9. Write the significance of food web.
10. What are ecotone and edge effect?
11. What do you mean by biogeochemical cycle?
12. What do you mean by primary productivity and secondary productivity?
13. Define endemism. Name one endemic plant species of NE region.
14. What is theory of tolerance?
15. Write a brief note on continental drift.

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SECTION—B

Answer any *five* questions of the following :  $6 \times 5 = 30$

16. Define environment. Write a note on the inter-relationship between the living world and the environment.
17. Write a brief note on levels of organizations.
18. Briefly discuss the soil profile with diagram.
19. Discuss the importance of water.
20. Define ecological pyramid. Explain various types of ecological pyramids found in an ecosystem.
21. Define food chain. Explain two types of food chains taking one example of each.
22. What is energy flow of an ecosystem? Discuss briefly about energy flow model.
23. Define ecological succession. What are the causes of ecological succession? Differentiate between primary succession and secondary succession.
24. Describe the different phytogeographical regions of India.
25. Briefly describe the major terrestrial biomes.

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