

2023/TDC(CBCS)/EVEN/SEM/ BOTHCC-402T/226

TDC (CBCS) Even Semester Exam., 2023

BOTANY

(Honours)

(4th Semester)

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Course No.: BOTHCC-402T

(Plant Ecology and Phytogeography)

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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 of the following questions: 2×10=20

- 1. What do you mean by levels of organization?
- 2. Write the importance of soil.
- 3. What do you mean by water table?

(Turn Over)



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- 4. What is symbiosis?
- Define ecological pyramid.
- 6. What do you mean by parasitism?
- 7. Write about ecological amplitude.
- 8. Distinguish between habitat and niche.
- 9. Write briefly about the types of succession.
- 10. Define frequency.
- Write briefly about ecological efficiencies.
- 12. Write a brief note on endemism.
- 13. Write briefly about Tundra biome.
- 14. Write a brief note on local vegetation of your region.
- 15. What is theory of tolerance?

(Continued)

(3)

SECTION-B

Answer any five of the following questions: 6×5=30

- Describe the basic concepts in ecology. Write a note on the dynamism and homeostasis.
- Discuss the physical, chemical and biological components of soil. Write a note on the role of climate in soil development.
- Discuss the states of water in environment.
 Write a note on water in soil.
- Discuss different types of ecological pyramids with examples.
- Describe the energy flow in a terrestrial ecosystem.
- 21. Discuss the analytical and synthetic characters of a plant community.
- 22. Describe the cycling of carbon and nitrogen.
- 23. Describe the structure and function of an ecosystem.

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- 24. Discuss the principles of phytogeography.
- 25. Describe the different phytogeographical divisions of India.

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