

2024/TDC (CBCS)/EVEN/SEM/
BOTHCC-402T/031

TDC (CBCS) Even Semester Exam., 2024

BOTANY

(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

UNIT—I

1. Answer any two of the following questions :

2×2=4

(a) What do you mean by homeostasis?

(b) What do you mean by biotic community?

(c) Define autecology and synecology.

2. (a) Discuss the inter-relationship between
the living world and the environment.

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(Turn Over)



(2)

Or

- (b) Discuss how ecology and environmental studies can be considered as multi-disciplinary subjects. 6

UNIT—II

3. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What do you mean by precipitation?
(b) State the importance of water in the environment.
(c) Write a note on chemical components of soil.

4. (a) Describe the hydrological cycle. 6

Or

- (b) Write a note on soil profile. Add labelled diagram. $5+1=6$

UNIT—III

5. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What is commensalism? Give example.
(b) Write a short note on food chain.
(c) What do you mean by symbiosis?

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(Continued)

(3)

6. (a) What do you mean by trophic levels? Discuss the different trophic organizations with example. $2+4=6$

Or

- (b) Write a note on adaptations of plants to their variation. 6

UNIT—IV

7. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What do you mean by biogeochemical cycles?
(b) Write a note on ecotone.
(c) Write a short note on ecological niche.

8. (a) Discuss the principles of energy flow of an ecosystem. 6

Or

- (b) Discuss the steps of phosphorus cycles. 6

UNIT—V

9. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What is continental drift?
(b) Write a note on local vegetation.
(c) Name two endemic species of North-East India.

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(Turn Over)

(4)

10. (a) Write a brief note on major terrestrial biomes.

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Or

(b) Discuss the Western Himalayas and Assam regions of phytogeographic region of India.

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