

15. (a) Give a brief account on continental drift.

Or

(b) Enumerate the applications of Remote sensing in Ecology.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Write an essay on Nitrogen cycle.

Or

(b) Give a detailed account on Biotic factors.

17. (a) Describe forest ecosystem.

Or

(b) Describe the morphological adaptations seen in Hydrophytes.

18. (a) Describe the quadrat method adopted to study plant community.

Or

(b) Write an essay on Association.

19. (a) Give a detailed account on Bioremediation.

Or

(b) Write an essay on Phytoremediation.

20. (a) List the different types of vegetation in Tamilnadu.

Or

(b) Write an essay on principles of phytogeography.

Page 4 Code No. : 30374 E

Reg. No. :

Code No. : 30374 E Sub. Code : AEBO 51

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2023.

Fifth Semester

Botany — Major Elective — I

PLANT ECOLOGY AND PHYTOGEOGRAPHY

(For those who joined in July 2020 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. The atmosphere contains _____ % of nitrogen.

- (a) 78 (b) 88
(c) 75 (d) 68

2. The word environment is derived from

- (a) Greek (b) English
(c) Latin (d) French



3. The animals that consume the green plants are called
(a) Consumers (b) Producers
(c) Decomposers (d) Customers
4. Which one of the following hydrophytic plants freely float on the surface of water.
(a) Utricularia (b) Cyperus
(c) Chara (d) Pistia
5. Only one species dominate to a particular area is called
(a) Association (b) Consociation
(c) Lociation (d) Plant formation.
6. Quadrat method was first used by
(a) Morgan (b) Chase
(c) Clements (d) Turner
7. Cleaning up of toxic contaminants in the environment using microbes is called
(a) Biodegradation (b) Bioleaching
(c) Bioremediation (d) Phytoremediation
8. The use of transgenic plants for environmental clean-up is called
(a) Bioremediation (b) Phytoremediation
(c) Biodegradation (d) Bioleaching

9. Which one of the following is used for the acquisition of information about faraway objects.
(a) Rador (b) Radium
(c) Colorimeter (d) Auxanometer
10. The occurrence of a species or genus in a restricted geographical area is called
(a) Holotypic (b) Monotypic
(c) Endemism (d) Endangered

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain the role of rain which influence on vegetation.
Or
(b) Write short notes on carbon cycle.
12. (a) Describe energy flow in forest ecosystem.
Or
(b) What are the morphological adaptations seen in xerophytes? Explain with suitable examples.
13. (a) Write short notes on consociation
Or
(b) Write short notes on Autecology.
14. (a) Write short notes on Biosensors.
Or
(b) Give a brief account on Biodegradation.