

(6 pages)

Reg. No. : .....

Code No. : 30209 E Sub. Code : SEBO 6 A

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

Sixth Semester

Botany

Major Elective-III — PLANT ECOLOGY AND  
PHYTOGEOGRAPHY

(For those who joined in July 2017-2019)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The word Environment is derived from
  - (a) English
  - (b) Latin
  - (c) French
  - (d) Greek
  
7. Cleaning up of toxic contaminants in the environment using microbes is called
  - (a) Biodegradation
  - (b) Phytoremediation
  - (c) Bioleaching
  - (d) Bioremediation
8. Which one can degrade hydrocarbons?
  - (a) Pseudomonas
  - (b) Polyporus
  - (c) Aspergillus
  - (d) Streptococcus
9. The occurrence of a species or gems in a restricted geographical area is called
  - (a) Endangered
  - (b) Endemic
  - (c) Holotypic
  - (d) Monotypic
10. The continentals drift was proposed by
  - (a) Crick
  - (b) Chase
  - (c) Watson
  - (d) Wegner

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2. The atmosphere contains \_\_\_\_\_% of nitrogen.
  - (a) 75
  - (b) 78
  - (c) 73
  - (d) 70
3. The word ecosystem was coined by
  - (a) Linnaeus
  - (b) Bateson
  - (c) Tansley
  - (d) Punnet
4. The pyramid of energy is
  - (a) Always upright
  - (b) Always inverted
  - (c) Either upright or inverted
  - (d) None of the above
5. More than two species are dominant in plant formation is called
  - (a) consociation
  - (b) association
  - (c) location
  - (d) plant formation
6. Quadrate method was first used by
  - (a) Turner
  - (b) Chase
  - (c) Morgan
  - (d) Clements

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PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Give an brief account in carbon cycle.  
Or  
(b) Explain the role of microbes which influence on vegetation.
12. (a) Describe forest ecosystem.  
Or  
(b) Explain the anatomical adaptations for hydrophytes.
13. (a) Explain the Line-transect method adopted to study plant community.  
Or  
(b) Write short notes on consociation.
14. (a) Give a brief account on phyto remediation.  
Or  
(b) Write short notes on Biosensors.

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15. (a) Write short notes on Endemism.  
Or  
(b) Briefly describe the vegetations types of Tamilnadu.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Give a detailed account on abiotic factors.  
Or  
(b) Write an essay on Nitrogen cycle.
17. (a) Explain Aquatic ecosystem.  
Or  
(b) Give a detailed account on various kinds of adaptations seen in xerophytes.
18. (a) Write an essay on association.  
Or  
(b) Describe the quadrat method adopted to study plant community.
19. (a) Give a detailed account on Bioremediation.  
Or  
(b) Write an essay on Biodegradation.

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20. (a) Write an essay on remote sensing.  
Or  
(b) Describe the principles of phyto-geography.
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