



K23P 3259

Reg. No. : .....

Name : .....

**First Semester M.Sc. Degree (CBSS – Supple. (One Time Mercy Chance)/Imp.)  
Examination, October 2023  
(2014 to 2022 Admissions)  
BOTANY**

**BOT1C04 : Environmental Science, Phytogeography and Forest Botany**

Time : 3 Hours

Max. Marks : 60

**Instruction : Draw diagrams wherever necessary.**

**SECTION – A**

1. a) Discuss ecosystem structure, function and energy flow.

OR

- b) Give an elaborate account on water pollution and its control measures.

2. a) Define biodiversity. Describe various strategies of conservation.

OR

- b) What are important characteristics of population ?

(2×8=16)

**SECTION – B**

(Answer **any two**)

3. a) What is global warming ?

- b) What are the consequences of global warming ?

- c) What are initiatives to mitigate global warming effects ?

(1+2+3)

4. a) Define community ecology.

- b) What are structure and attributes of community ?

- c) Explain methods to access species level diversity and its measurements.

(1+2+3)

5. a) What are the patterns of plant distribution ?

- b) What is continuous distribution ?

- c) What are different forms of continuous distribution ?

(1+2+3)

(2×6=12)

P.T.O.

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**SECTION – C**

(Answer **any six**)

6. List out factors involved with ecosystem stability.
7. What is ecological succession ? What are the stages of ecological succession ?
8. What are important sources of solid waste ? What are the methods adopted to manage solid waste ?
9. Explain major features of Biodiversity Act 2002.
10. What are important *ex situ* conservation strategies ?
11. What is endemism ? Explain endemic distribution.
12. List out major forest products of Kerala.
13. Discuss world conservation strategies of UN.

(6×3=18)

**SECTION – D**

(Answer **any seven**)

14. Environmental Impact Assessment
15. Remote sensing
16. El-Nino effect
17. Symbiosis
18. Ecology of plant invasion
19. Ecosystem restoration
20. Flagship species
21. IUCN red list
22. Vicarism
23. NTFPs.

(7×2=14)