



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.



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)

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