Reg. No ..... Name **24P1038**

M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024

SEMESTER 1 : BOTANY

COURSE : **24P1BOTT03 : ECOLOGY, ENVIRONMENTAL BIOLOGY AND PHYTOGEOGRAPHY**

(For Regular - 2024 Admission)

Duration : Three Hours Max. Weights: 30

PART A

Answer any 8 questions **Weight: 1**

1.	Explain climax community.	(U)
2.	Explain the factors affecting phytogeography.	(A)
3.	Write a note onFood chain.	(U)
4.	Differentiate between autogenic and allogenic succession.	(U)
5.	Write the significance of biodiversity hotspots.	(U)
6.	Explain Ecological amplitude.	()
7.	What are bioindicators?	(An)
8.	Explain the dynamic community characteristics.	(U)
9.	What are bioscrubbers?	(U)
10.	Explain RET species.	(A)

(1 x 8 = 8)

PART B

Answer any 6 questions **Weights: 2**

11.	Write a note on the environmental safety provisions in Indian constitution.	(U)
12.	Explain Sorenson's index of similarity. Discuss how you use the similarity index in community ecology.	(An)
13.	Explain the significance of Ecological Restoration.	()
14.	Explain the characteristics of K - selection and R selection.	(U)
15.	Explain the reasons for biodiversity loss. Suggest appropriate measures to prevent biodiversity loss.	(U)
16.	Discuss the differences and similarities between geometric and exponential growth.	(An)
17.	Explain the applications of succession in restoration ecology.	(U)
18.	Discuss the applications of ecology in different fields.	()

(2 x 6 = 12)

PART C

Answer any 2 questions **Weights: 5**

19.	Write an essay on the mangrove ecosystems and its conservation in Kerala.	()
20.	Write an essay on the functional aspects with an emphasis on inter-specific interactions of a community.	(U)
21.	Explain the different aquatic and terrestrial ecosystem.	()
22.	Discuss on climate change and other global environmental issues. Suggest some measures to be taken to effectively manage climate change related issues.	()

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;