#### 2022

### **BOTANY**

[P.G.]

# (M.Sc. Fourth Semester End Examination-2022) PAPER-402

## **Ecology and Biodiversity**

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

#### Group-A

### Answer any FOUR questions from the following:

4x2 = 8

- 1. Mention different methods under phytosociological study of community.
- 2. What is Agenda 21?
- 3. What were the causes of Minamata disaster?
- 4. Write the effects of ozone depletion.
- 5. What are Ramsar Sites?
- 6. How does saline habitat induce drought stress?
- 7. Write two characters of type I survivorship curve.
- 8. What is carrying capacity (K)?

# Group-B

An	swer any four questions from the following: 4x4	= 16
1.	Comment on the significance of phytosemediation technique	ue for
	cleaning soil pollutants.	4
2.	What is biological invasion? Why is it harmful? Name	four
	invasive plant species.	+1+2
3.	Write a short npotes on a) Montreal protocol b) Rio	earth
	summit.	2+2
4.	What are osmolytes? How do they help plants under stress?	2+2
5.	What is the continuum concept of r and K selection?	4
6.	Write a short note on London Smog.	2+2
	Group -C	
An	swer any two question of the following: 2x8	= 16
1.	Write short note on - a) Bhopal gas tragedy b) Stock	cholm
	conference.	4+4
2.	Indicate major principles of ecosystem? What is biome?	
	many biomes do you know? Describe energy flow	
	cool, brown and a man a man	÷2+3
3.	What is acid rain? Differentiate between dry and	
	precipitation. Mention the effects of acid rain on plants. 2	
4.	A population of $N_0$ = 10, individuals grow exponentially w	ith r=
	1.0, How long will it take for the population to reach 5 tin	
	beginning size? Discuss the factors for population regul	lation.
		4+4