U.G. 3rd Semester Examination - 2024

BOTANY

[MAJOR]

Course Code: BOT-MJ-T-03

(Phycology and Lichen)

[NEP-2020]

Full Marks: 40

Time: $2\frac{1}{2}$ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any five questions:

 $2\times5=10$

- i) What is SCP? Give an example.
- ii) How does Lichen take role as an indicator?
- iii) What is algal bloom? How is it detrimental to environment?
- iv) Write about the reserve food materials found in Phaeophycea.
- v) Write the scientific name of a Lichen and refer its habitat.
- vi) What are the pigments found in Cyanophycean members?

	vii)	Name two sex types in <i>Oedogonium</i> with sketches.
	viii)	What do you mean by alternation of generation?
2.	Ansv	wer any two questions: $5\times2=10$
	i)	What is heterocyst? Write its structure and
	•	function. $1+2+2$
	ii)	What is Lichen? Write the ecological role of
		Lichen. 1+4
	iii)	What is algal toxin? Write the economic
		importance of Cyanophyceae. 1+4
	iv)	Write in brief the sexual reproduction of
	•	Chlamydomonas with sketches. 3+2
3.	Ans	wer any two questions: $10 \times 2 = 20$
	i) 🖖	Describe about various algal products and their
		uses. 10
	ii)	Write in details the morphological structure of
	•	pinnate Diatom with sketches. Write the
		economic importance of <i>Diatom</i> . 5+2+3
•	iii)	What is triphasic life cycle? Diagrammatically
		represent the life cycle of polysiphonia. 2+8
	iv)	Describe various types of Lichen with sketches
	•	and examples. 6+4