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G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2025.

(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: B.Sc., BOTANY

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
IV	PART - III	INDUSTRY MODULE	U23BO4IM	CULTIVATION OF ALGAE

Date & Session : 12.11.2025/AN

Time: 2 hours

Maximum: 50 Marks

Bloom's K-level	Q. No.	SECTION – A (5 X 10= 50 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b).
K3	1a.	Illustrate the morphology and describe the mass culture of Spirulina with suitable diagrams.
	1b.	(OR) Illustrate the morphology, life history of Chlorella.
K3	2a.	Describe the application of phycocyanin, β -carotene, and astaxanthin.
	2b.	(OR) Justify the use of microalgal biofuels as a sustainable alternative to fossil fuels.
K4	3a.	Analyze the ecological and economic impact of cultivating Sargassum on a large scale.
	3b.	(OR) Explain the morphology and life cycle of Ulva.
K5	4a.	Discuss the role of seaweeds as food and feed and their nutritional benefits.
	4b.	(OR) Evaluate the prospects and challenges of algal bioprospecting for future biotechnology applications.
K5	5a.	Explain how seaweeds contribute to aquaculture and their role in improving aquatic environments.
	5b.	(OR) Assess the sustainability and future scope of seaweed-based aquaculture in India.