

Roll.No.

24PPBET1B02

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

M.Sc. PBPBT - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I

24PPBET1B02 - Sea weeds and Algal Biotechnology

Total Duration : 1 Hrs.30 Mins.

Total Marks : 40

Section B

Answer any **TEN** questions ($10 \times 2 = 20$ Marks)

1. What are the uses for laminarin?
2. Why is Corbion's algae production facility located in Brazil?
3. What does GRAS stand for?
4. Explain the relationship between algae and land plants.
5. Differentiate between algae, seaweeds, and seagrasses.
6. What are the main commercial products obtained from red algae?
7. What is the primary reason for closing beaches and parks when cyanobacterial blooms are visible?
8. What are the potential health effects of exposure to toxins produced by harmful algal blooms?
9. What is the primary impact of yessotoxins on filter-feeding shellfish?
10. What is the primary species responsible for the Florida red tide?
11. Explain the process of yessotoxin production in marine phytoplankton.
12. Give briefly the significance of community education in identifying harmful algae and its role in public health.

Section C

Answer any **FOUR** questions ($4 \times 5 = 20$ Marks)

13. Why are some genetic tools for cyanobacteria not universal?
14. What is bio-prospecting?
15. Give an account of the different divisions of seaweeds based on pigmentation.
16. Explain the importance of seaweeds in ecosystems and human life
17. Discuss the global implications of anatoxin detection in freshwater systems and the potential public health measures that can be implemented to mitigate risks.
18. Explain the process of toxin bioaccumulation and its implications for marine life.
