

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 - NOV' 2024

SEMESTER - I

24PPBET1A02 - Applications of Algae

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Describe the preparation and imposition of seaweed liquid fertilizers and outline their agricultural uses.
2. Explain the differences between carrageenan and agar-agar.
3. Classify the Macroalgal Cultivation Methods.
4. Apply the methods employed for harvesting of *Haematococcus*.
Write the factors should be considered when selecting a harvesting method.
5. Describe the role of algae in fisheries and medicine. How do they contribute to these sectors? Provide specific examples to illustrate their importance.
6. Illustrate the economic importance of algae in various industries, including food, pharmaceuticals, and biofuels.
7. Explain the significance of algae as bioindicators for assessing water quality and pollution.
8. Discuss the therapeutic applications of *Haematococcus*.
How does its composition contribute to its health benefits?

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Appraise nutraceutical importance of algae.
10. Apply biomass conversion into ethanol.
11. Examine the applications of genetic engineering in algae.
12. Discuss the mass culture of *Spirulina*.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Determine the role of algae as indicator in accessing water quality and pollution.
