

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. (PBPB) END SEMESTER EXAMINATIONS NOVEMBER - 2023

SEMESTER - I

22PPBET1002 - Applications of Algae

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Assess the nutritional value of *Spirulina*.
2. Ascertain the importance of heterocysts in BGA.
3. Comment on the source and usage of Agar-Agar.
4. Discuss the applications of Alginic Acid in the field of medicine.
5. Write short notes on any two laboratories involved in algal cultivation in India.
6. How lipid yield of micro algae is enhanced by heterotrophic and mixotrophic method?
7. Describe the role of algae in nanotechnology.
8. Algae are ideally suited for water quality assessment - Justify.

Section C

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

9. Give an account of the significance of BGA in aqua and agriculture.
10. Liquid seaweed fertilizer, a promising low-cost bio fertilizer – Justify.
11. Compare the long-line rope method of seaweed farming with net bag method.
12. Infer the role of algae in Phycoremediation of heavy metals.

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

13. Evaluate the existing knowledge on the mass culture and usage of *Spirulina*.
