

Roll.No.

24PPBET1A02

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

**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. Explain the use of algae for human needs in the field of Nutraceuticals.
2. Prepare an essay on the Rope cultivation of Algae.
3. Explain the process of Mass cultivation of Haematococcus.
4. Explain the uses of algae in nanotechnology.
5. List the industrial uses of carrageenan.
6. Classify and give the application of Algae in genetic engineering.
7. Describe therapeutic algae and their uses.
8. How will you justify the importance of Algae in fisheries?

### **Section C**

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

9. Explain the synthesis of Liquid Seaweed Fertilizers (LSF) and their significance.
10. Prepare the procedure for biodiesel production from algae.
11. Determine and write the process of net cultivation and raft cultivation methods.
12. Evaluate and explain the composition of medium, techniques involved in the culture and harvest of Spirulina.

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

13. Criticize algae as indicator in accessing water quality and pollution.

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