

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.

B.Sc. END SEMESTER EXAMINATIONS NOVEMBER-2022

SEMESTER - I

20UPBCT1001 - Phycology

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

Section A

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

1. How algae are classified based on presence of reserve food material?
2. Discuss asexual mode of reproduction in algae.
3. Compare the characteristics of Phaeophyceae with Rhodophyceae
4. How do heterocysts improve efficiency of nitrogen fixation in *Anabaena*?
5. Write an account on asexual reproduction in *Ulva*.
6. How do you sterilize culture material during algal culture?
7. Give an outline on health benefit of *Spirulina* Single Cell Protein.
8. What is agar? Discuss the uses of agar in biology.

Section B

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Write an account on classification of algae according to F. E. Fritsch.
10. Describe the life cycle of Chlorophyceae in details.
11. Give a detailed account on sexual reproduction in *Sargassum*.
12. Write an essay on culture conditions that affect the growth of algae in algal culture.
13. Give a detailed account on cultivation of *Spirulina*.
