

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.PBPBT - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - I

20UPBCT1001 - Phycology

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. List the names of important methods of asexual and sexual reproduction in algae.
2. Explain the structure and reproduction of *Anabaena*.
3. Prepare brief notes on sterilization techniques followed in culturing algae.
4. Justify in what ways can algae be of use to space travellers?
5. List out the names of Phaeophyceae, Rhodophyceae and Chlorophyceae.
6. Describe the external morphology of *Sargassum* with illustrations.
7. Explain the serial dilution method used in culturing algae.
8. By culturing *Chlorella* extensively, the world food problem can be solved-Justify.

Section C

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

9. Describe in detail important characteristic features of different classes of algae as proposed by F.E. Fritsch.
10. Prepare an essay on range of vegetative structures in various groups of algae.
11. Compare the distinguishing features of *Ulva* and *Sargassum*.
12. Write in detail about cultivation of algae.
13. Recommend some of industrial importance obtained from algae. Describe the economic importance of any two of such products.
