

**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 EXAMINATION APRIL/NOV - 2021**

**SEMESTER - I**

**16UPBCT1A01 & UPB/CT/1A01 - Phycology and Algal Biotechnology**

<b>Total Duration : 3 Hrs</b>	<b>Total Marks : 75</b>
MCQ : 30 Mins	MCQ : 15
Descriptive : 2 Hrs.30 Mins	Descriptive : 60

Section B

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

1. Describe the different types of flagella and its Ultra-structure with diagrams.
2. Enumerate the distinguishing characters of the class cyanophyceae.
3. Describe the reproductive structures of *Sargassum* with suitable illustrations
4. Write a short note on the collection of phytoplankton.
5. Preparation and its significance of algal bio-fertilizers.
6. Explain the role of Pigments in the classification algae.
7. Enumerate the uses of Diatomaceous earth.
8. Describe morphology and mode of reproduction occurs in *Anabaena* with suitable illustrations.

Section C

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

9. Write an essay on the classification algae with suitable examples and illustrations
10. Describe the general characteristic features of green algae with suitable examples and illustrations.
11. Describe the triphasic life cycle with a suitable example.
12. Describe the extraction of agar-agar and its applications.
13. Enumerate the different methods of sterilization involved in algal cultivation.