

Roll.No.

20UPBCT1001

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 - NOVEMBER 2025

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. Illustrate and explain the diplontic life cycle of alga.
2. Explain the different types of pigments found in algae.
3. Differentiate between role of akinete to heterocyst.
4. Describe the role of autoclave in culture requirements.
5. Interpret the applications of diatomite and agar agar to mankind.
6. Relate the various structural types of algal flagella to locomotion.
7. Compute the protocol for mass cultivation of Spirullina.
8. Infer the thallus organisation of the genus Sargassum.

### Section C

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

9. Enumerate the general characteristic features of algae.
10. Classify the various types of sexual reproduction in alga.
11. Justify the triphasic type of life cycle in Gracilaria.
12. Relate serial dilution to algal culture.
13. Evaluate the role of algae as a bio fertilizer.

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