

B.Sc. DEGREE EXAMINATION, NOVEMBER 2018
I Year I Semester
Core Major - Paper I
PHYCOLOGY AND ALGAL BIOTECHNOLOGY

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Plankton
2. phycocyanin
3. trichomes
4. pyrenoids
5. conceptacles
6. Monotrichous
7. Axenic culture
8. Inoculation
9. Alginate
10. Diatomaceous earth
11. Algal bloom
12. agar

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. Write briefly about the various reserve food materials seen in algae .
14. Give an account of the pigment distribution in the various algal classes.
15. Illustrate and describe the various thallus types seen in chlorophyceae.
16. With a neat diagram describe the thallus structure of *Sargassum*.
17. Write about the sterilization techniques involved in algal culture.
18. Write short notes on SCP.
19. Illustrate and explain the structure of *Anabaena*.

Section C ($3 \times 10 = 30$) Marks

Answer any **THREE** questions

20. Give the outline of the classification of Algae by Fritsch.
21. Highlight the general characteristics of the class Rhodophyceae.
22. With diagrams explain the life cycle of *Ulva*.
23. What are the various steps that have to be followed in culturing of algae.
24. Write in detail the economic importance of algae.

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