

B.Sc. DEGREE EXAMINATION, NOVEMBER 2019
I Year I Semester
Phycology and Algal Biotechnology

Time : 3 Hours

Max.marks :75

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

Answer any **TEN** questions

1. Cyanophycean Starch.
2. Phycoerythrin
3. Trichome
4. Pyrenoid
5. Receptacle
6. Holdfast
7. Plankton
8. Inoculum
9. Agar-agar
10. SCP
11. Isolation
12. *Ulva*

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

Answer any **FIVE** questions

13. Explain various pigments found in algae.
14. Write the salient features of cyanophyceae.
15. Give an account on vegetative structure of *Sargassum*.
16. Explain briefly sterilization methods.
17. What are algal biofertilizers? Explain.
18. What is alginate? How are they extracted?
19. Write about the reproduction methods found in *Anabena*.

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

Answer any **THREE** questions

20. Outline the classification of algae by Fritsch, 1945.
21. Write the characteristic features of Chlorophyceae and Phaeophyceae.
22. Explain the structure, reproduction and lifecycle of *Gracilaria*.
23. Describe the isolation method, cultivation and maintenance of algae.
24. Write detailed notes on algal biofertilizers and single cell protein production.

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