

2025

M.Sc. 1st Semester Examination

BOTANY

Paper : BOTC402X0

(Algal Science)

Full Marks : 25

Time : One Hour

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. What are the reserve foods present in cyanophyta and Heterokontophyta?
2. Mention the speciality of the members of Glaucophyta that supports the endosymbiont hypothesis.
3. Elucidate the chemical nature of agar-agar.
4. Name two parameters used in phylogenetic analyses of algae.

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. What is green water technique in pisciculture and how does it contribute? $2+2$

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6. Describe the internal structures of cell of Cyanophycean members.
7. Characterize the internal structure of chloroplast, pigment system and cell divisional features of Rhodophyta.
8. Name two genera as the sources of Alginic Acid. Write a comprehensive note on the diverse uses of the chemicals. 2+2

Group - C

Answer any *one* question : 8×1=8

9. Illustrate the salient features of Heterokontophyta. Comment on the ultrastructural features of its flagella. 6+2
10. Mention diverse nature of sterility of soil. How can algae help reclaim of fertility of soil? 6+2

Internal Assessment : 5 marks
