

A-872

Total Pages : 3

Roll No.

BOT-502

M.Sc. BOTANY (MSCBOT)

**(Biology and Diversity of Algae,
Bryophyte and Pteridophyta)**

1st Year Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

Long Answer Type Questions 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Discuss the various methods of vegetative and asexual reproduction in Algae.
2. Give an illustrated account of thallus structure and sporophyte of Bryophyta. Point out the important evolutionary tendencies.
3. Write an essay on the economic importance of Algae.
4. Give an account on the evolution of Stellar system in Pteridophyta.
5. Write the general characteristics of Phaeophyta. Describe the life cycle of Ectocarpus.

Section–B

Short Answer Type Questions 4×8=32

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. What are phytoplanktons ? Write briefly about them.
2. Enumerate characteristic features of Rhodophyta.
3. Describe the process of spore dispersal in Bryophytes.
4. Discuss secondary growth in Pteridophytes.
5. What are flagella ? Write briefly about them.

6. Write a brief note on general account of Xanthophyceae.
7. Give a brief account of Fossil Pteridophytes.
8. Differentiate between any *two* of the following :
 - (i) Parasitic and Epiphytic Algae
 - (ii) Ectophloic and Amphiphloic siphonostele
 - (iii) Parenchymatous and Pseudoparenchymatous forms
