

A-0011

Total Pages : 3

Roll No.

MSCBOT-502

M.Sc. Botany (MSCBOT)

(Algae and Bryophytes)

Examination, June 2025

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. Critically explain the process of mass culture of micro algae, waste land reclamation, bio-fouling and bio-remediation through the Algae.
2. Compare the structure, reproduction and life history of Phaeophyta and Xanthophyta.
3. Critically analyse the morphology, structure, reproduction and life history of Anthocerotopsida.
4. Give a detailed classification of Algae proposed by Fritsch.
5. Describe modern system of bryophyte classification and their ecological importance.

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. Describe briefly the vegetative structure and sexual reproduction in Porella.
2. Describe general characteristics of Jungermanniales.
How does it differ from Metzgeriales ?

3. Discuss the progressive sterilization of sporogenous tissue of bryophytes.
4. Give a brief account of origin of bryophytes.
5. Critically analyze thallus organization and reproduction of Algae.
6. Examine the thallus structure, reproduction, life histories of Chlorophyceae.
7. Enumerate Salient features of Cyanophyta.
8. Write an account of structure, reproduction and life history of Sphagnales.
