A-0011

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MSCBOT-502

M.Sc. BOTANY (MSCBOT)

(Algae and Bryophytes)

1st Semester Examination, Session December 2024

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. Examine the thallus structure, reproduction, life histories of Phaeophyceae and distinguish between Phaeophyta and Rhodophyta.

2. Write brief note on the following :

   (a) Enumerate Salient features of Cyanophyta

   (b) Enumerate Salient features of Xanthophyta

3. Discuss the structure, reproduction and life history of Bryopsida.

4. Give a detailed account on cultivation of economically important seaweeds.

5. Write critical notes on the following :

   (a) Sporophyte of Anthoceros

   (b) Life cycle of Polytrichum

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. Discuss in brief the utilization of Algae in industry.

2. Describe salient features and life cycle pattern of Botrydium.

3. Discuss the impacts of climate change in bryophytes community.

4. Give habitat, thallus organization and reproductive behaviour of Oedogonium.

5. Write an account of structure, reproduction and life history of Sphagnales.

6. Describe the distinguishing feature of bryophytes. In what respect do they differ from Algae and Pteridophytes ?

7. Describe the various methods of vegetative reproduction in Hepaticopsida.

8. Write critical notes on the following :

   (a) Methods of reproduction in Vaucheria

   (b) Use of Blue green algae in agriculture

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