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Total Pages : 3

Roll No.

BOT-502

Biology and Diversity of Algae, Bryophyta and Pteridophyta

M.Sc. BOTANY(MSCB0T)

Ist Year, Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Describe in detail the thallus organization in Algae.

2. What is stele? Explain various kinds of steles by giving suitable diagram and examples.
3. What are the criteria used in the classification of algae. Give outline of Fritch's classification in algae.
4. What are Bryophytes? Discuss general characters, classification and economic importance of Bryophytes.
5. Describe the vegetative structure and mode of reproduction of *Sargassum* with diagram.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any Four (04) questions only. (4×10=40)

1. Write short note on :
 - (a) Parasitic algae.
 - (b) Symbiotic algae.
2. External morphology of *Rhynia*.
3. Importance of algae as food.

4. Similarities and dissimilarities between Pteridophytes and Bryophytes.
 5. Discuss the importance of Heterospory.
 6. Fossil pteridophytes.
 7. Asexual reproduction in *Volvox*.
 8. Describe the external characters of *Marchantia* with diagram.
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