

**S-1046**

Total Pages : 3

Roll No. ....

**BOT-502**

**Biology and Diversity of Algae,  
Bryophyta and Pteridophyta**

M.Sc. Botany (MSCBOT)

1st Year Examination, 2022 (Dec.)

**Time : 2 Hours]**

**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.

**SECTION–A**

**(Long Answer Type Questions)**

**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.

(2×19=38)

1. What are Algae? Describe in detail about the characteristic features and economic importance of algae?

2. Discuss the structure, reproduction and life cycle of *Anthoceros* with the help of diagrams.
3. Describe various life cycles in Algae with examples.
4. Explain in detail about the structure and reproduction of *Oedogonium* with diagrams.
5. Write in detail about the Telome Theory.

### SECTION-B

#### (Short Answer Type Questions)

**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. (4×8=32)

1. Economic importance of Bryophytes.
2. Vegetative reproduction in Algae.
3. General characteristics of Xanthophyta.
4. Life cycle of *Pellia*.
5. External morphology of *Rhynia*.

6. Write a short note on Polystele.
  7. Progressive Evolution theory of gametophyte.
  8. Characteristic features of Pteridophytes.
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