

A-0030

Total Pages : 3

Roll No.

MBOT-507

M.Sc. BOTANY (MSCBOT)

(Biology and Diversity of Bryophyta and Pteridophyta)

2nd Semester Examination, Session December 2024

Time : 2:00 Hrs.

Max. Marks : 35

Note :- This paper is of Thirty Five (35) 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) 2×9½=19

Note :- Section 'A' contains Five (05) Long-answer type questions of Nine and Half (9½) marks each. Learners are required to answer any two (02) questions only.

1. Write a detailed note on Telome theory and also discuss its merits and demerits.
2. Write an essay on Heterospory and seed habit in pteridophyte.
3. Write a detailed note on sexual reproduction in *Sphagnum* and discuss its economic importance.
4. Describe the life history of *Psilotum* in detail. Discuss its external morphology and internal structure with the help of suitable diagrams.
5. Describe the evolution of gametophyte in bryophytes.

Section–B

(Short Answer Type Questions) 4×4=16

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

1. Write a short note on siphonosteles and its modifications.
2. Give a brief note on the life cycle of *Marchantia*.
3. Write a short note on general characters of Jungermanniales.
4. Write briefly about vegetative reproduction in *Anthoceros*.

5. Write a short note on general characters of pteridophytes.
6. Write a short note on similarities and dissimilarities between pteridophytes and gymnosperms.
7. Write a short note on internal structure of *Equisetum*.
8. Write a short note on any fossil pteridophytes with labeled diagram.
