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Total Pages : 3

Roll No.

MBOT-507

Biology and Diversity of Bryophyta and Pteridophyta

M.Sc. BOTANY (MSCBOT-201)

2nd Semester Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 40

Note : This paper is of Forty (40) 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 Ten (10) marks each. Learners are required to answer any Two (02) questions only.

(2×10=20)

1. Write an essay on general characters of Bryophytes. Write the similarities and dissimilarities between Bryophytes and Pteridophytes.

2. With the help of labelled diagram describe the various methods of reproduction in *Marchantia*.
3. Discuss sexual reproduction in *Anthoceros*.
4. What is Heterospory? Write a note on different evidences regarding the origin of heterospory in pteridophytes.
5. Give a detailed account of Stelar evolution in pteridophytes.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Five (05) marks each. Learners are required to answer any Four (04) questions only. (4×5=20)

1. Write a note on economic importance of bryophytes.
2. Describe the life cycle of *Sphagnum*.
3. Draw a well labelled diagram showing the successive stages in the development of antheridium in Jungermanniales.
4. Write short notes on the following (any five) :
 - (a) Sporophyte.
 - (b) Gametophyte.
 - (c) Uses of *Sphagnum*.

- (d) Apospory.
- (e) Apogamy.
- (f) Parthenogenesis.
- (g) Fossil Pteridophyte.

5. Describe the external morphology of *Rhynia gwynne-vaughanii*.
 6. What is overtopping and syngensis.
 7. Describe the external morphology of *Psilotum*.
 8. Write a note on classification of pteridophytes.
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