

Roll No. :

Total No. of Questions : 11]

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BOTASEM-106

M.Sc. (Ist Semester) Examination Dec., 2022

BOTANY

Paper - BOT-102

(Diversity of Bryophytes and Pteridophytes)

Time : 3 Hours]

[Maximum Marks : 40

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries 1 mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries 3 marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries 5 marks.

Section-A

1. (i) How will you distinguish scales and the rhizoids ?
- (ii) What do you understand by aposporous gametophytes ?

BRI-6

(1)

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- (iii) Why species of Anthoceros are called 'hornworts' ?
- (iv) Write the function of gemma cup.
- (v) What is Apomixis ?
- (vi) Write *two* species of Rhynia.
- (vii) What is telome concept ?
- (viii) What type of stele is found in the stem of Equisetum ?
- (ix) Horse tail is the common name of which Pteridophyta.
- (x) Write the name of smallest bryophyte.

Section-B

2. Write a note on origin of Bryophytes.

Or

Write a note on primitive versus advanced features of Bryophytes.

3. Describe the development of Sporophyte in Anthoceros.

Or

Explain the identifying characters of Notothylus.

4. Write a note on evolution of stele in Pteridophytes.

Or

Write a note on geobotanical prospects of Bryophytes.

5. Write the important characters of sub-division Psilopsida.

Or

Give an illustrated account of the spore bearing structure of Equisetum.

6. Explain the life-cycle of salvinia with the help of labelled diagrams.

Or

Write a note on Soral Evolution.

Section–C

7. Comments briefly on the classification of Bryophytes.
8. With the help of labelled diagrams only illustrate life-cycle of Buxbaumia.
9. Explain Heterospory and seed habit in Pteridophytes.
10. Write systematics, Reproduction and Phylogeny of Isoetes.
11. With the help of labelled diagrams explain the life-cycle of Ophioglossum.