

M.Sc. 1st Semester Examination, 2024

BOTANY

(Bryology)

PAPER – BOT-103

Full Marks : 25

Time : 1 hour

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

GROUP – A

Answer any two of the following : 2 × 2

- 1. Name a diplolepidous and a haplolepidous moss.**

(Turn Over)

2. What is a aerial pore ? Give an example of hepaticopsida which have no air pore.
3. Is *Sphagnum* a true moss ? Why ?
4. Define 'm' chromosome. Who first discovered it ?
5. Which bryophyte is called "basal Bryophyte" and why ?
6. What is the full form of GABA ?

GROUP – B

Answer any two of the following : 4 × 2

Differences between :

7. Elaters and Pseudoelaters
8. Hydroid and Lepdroid
9. Hyaline cells and Living cells

(3)

10. "V" shaped and "J" Shaped chromosome.

GROUP – C

Answer any **one** of the following : 8×1

11. Write the salient features of Takakiales, mention the affinities and latest systematics position of this group. Why this order is called Synthetic Group ? $3 + 2 + 2 + 1$

12. Define Biotechnology of Bryophytes. What are the application of bryophytes in the light of biotechnical aspects and mention in details with examples. $2 + 6$

[Internal Assessment – 5 Marks]

