

2024

2nd Semester Examination

BOTANY (Honours)

Paper : C 4-T

(Archegoniate)

[CBCS]

Full Marks : 40

Time : Two Hours

The figures in the margin indicate full marks.

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

Group - A

Answer any *five* questions. $2 \times 5 = 10$

1. Name two Indian species of *Pellia*.
2. Distinguish between vallecular canal and carinal cavity.
3. What is pseudoelater? Where is it found?
4. In which geological age does *Rhynia* exist?
5. Give botanical names of two aquatic ferns.
6. What is sulphur shower?
7. Mention two primitive characters of *Cycas*.

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(2)

8. Mention two medicinally important species of Gymnosperms.

Group - B

Answer any *four* questions. $5 \times 4 = 20$

9. Mention the salient features of *Anthoceros*. Why is Anthocerotopsida considered a synthetic group? $3+2$
10. Draw and describe the structure of archegoniophore of *Marchantia*. $2+3$
11. What is telome? Describe the origin of sporangiophore of *Equisetum* according to the telome theory with suitable diagram. $2+3$
12. Briefly describe the phylogeny and affinity of *Psilotum*.
13. Represent a brief schematic classification of extant Gymnosperms up to family.
14. Draw and describe the female cone of *Pinus*.

Group - C

Answer any *one* question. $10 \times 1 = 10$

15. Write short notes on : $2 \times 5 = 10$
- (i) Gametophyte of *Sphagnum*
 - (ii) Economic importance of Pteridophyta
16. Draw and describe the structure of *Gnetum* ovule. Why is *Gnetum* considered as advanced among Gymnosperms? $5+5$
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