



**2022/TDC(CBCS)/EVEN/SEM/
BOTHCC-202T/271**

TDC (CBCS) Even Semester Exam., 2022

BOTANY

(Honours)

(2nd Semester)

Course No. : BOTHCC-202T

(Archegoniate)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any ten questions :

2×10=20

- 1. What are the different classes of the sub-kingdom Archegoniata? Write the unifying features of each class.** **1+1=2**
- 2. Write a note on Archegonium.**
- 3. Explain the types of alternation of generation found in pteridophytes.**

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(Turn Over)



(2)

4. Write a note on the habitats of bryophytes.
5. Give four examples of Hepaticopsida.
6. Write a note on gemma cup.
7. Write the advanced features of the sporogonium of *Anthoceros*.
8. Write a note on elaters.
9. Write the systematic position of *Funaria*.
10. Draw and describe the sporangium of *Rhynia*.
11. Write a note on the rhizophore of *Selaginella*.
12. Write the unique features of Filicopsida.
13. Give examples of four extinct members of gymnosperms.
14. What are pteridosperms?
15. Write a note on the structure of the pollen grains of *Pinus*.

SECTION—B

Answer any five questions : 6×5=30

16. Give an account of the adaptive strategies of first land plants to survive on land.

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(Continued)

(3)

17. Define alternation of generation. Describe the alternation of generations found in gymnosperms with necessary sketches. 2+4=6
18. Classify bryophytes up to order level with examples.
19. Write briefly the range of thallus organization found in bryophytes.
20. Draw and describe the structure of mature sporogonium of *Marchantia*. 2+4=6
21. Write an elaborate note on the ecological significance of bryophytes with special reference to *Sphagnum*.
22. Write notes on heterospory and seed habit. State the biological significance of heterospory. 4+2=6
23. Give a detailed account of *Psilotum*.
24. Write an illustrated note on the economic importance of gymnosperms.
25. Draw and describe the morphology of the sporophylls of *Cycas*. (1+2)×2=6

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