

## 2023/TDC(CBCS)/EVEN/SEM/ BOTHCC-202T/223

TDC (CBCS) Even Semester Exam., 2023

BOTANY

(Honours)

(2nd Semester)

Course No.: BOTHCC-202T Compagned Laurid Streetman, of gill of

[Archegoniate]

B. "Lake the tuerties is colored CHARLES DESCRIPTION Full Marks: 50 Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

## SECTION—A

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Answer any ten questions: 2×10=20

- 1. Write a note on transfer cells.
- 2. What is heterospory? Give two examples of heterosporous Archegoniate. 1+1=2
- What do you understand by 'isomorphic alternation of generations?

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(Turn Over)

State the points of resemblance between bryophytes and algae.

- 6. Give two examples of thallose bryophytes along with their orders.

  1+1=2
- 7. Why is Anthoceros called 'hornwort'?
- 8. State the function(s) of columella and elater.

  1+1=2
- 9. Write the economic uses of 'peat moss'.
- 10. "Pteridophytes are also called vascular cryptogams." Why?
- What is ligule? Give two examples of ligulate Lycopsida. 1+1=2
- 12. State Stelar theory.
- Write four important characters of the order Pteridospermales.
- 14. What is amber? State its uses. 1+1=2
- 15. Write a short note on pollination in Pinus.

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## SECTION—B

Answer any five questions:

6×5=30

- 16. Give an account of the unifying features of Archegoniates.
- Describe the haplo-diplontic and diplontic life cycle patterns (alternation of generations) with reference to pteridophytes and gymnosperms respectively.
- 18. Explain how bryophytes are adapted for amphibian life.
- 19. Explain the theory of sterilization with reference to evolution of sporophytes in bryophytes citing suitable examples.
- 20. Give a comparative account of the gametophytic structures of *Riccia* and *Funaria*.
- 21. Draw and describe the sporogonium structure of Anthoceros. 2+4=6
- 22. Describe the cone structure of Equisetum with necessary diagrams. 3+3=6
- 23. Write a note on Stelar evolution in pteridophytes.
- 24. Describe the ovule structure of Gnetum.
- 25. Describe the anatomy of pine needle.

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