

2023/TDC(CBCS)/EVEN/SEM/ BOTHCC-403T/227

TDC (CBCS) Even Semester Exam., 2023

BOTANY

(Honours)

(4th Semester)

Course No.: BOTHCC-403T

(Plant Systematics)

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 of the following questions: $2 \times 10 = 20$

- 1. What is acronym? Write the acronym of Central National Herbarium.
- 2. Define flora and monographs.
- 3. What do you mean by phytochemistry?

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(Turn Over)



(2)

4. What is author citation?

5. What do you mean by holotype and isotype?

- What is taxonomic rank? Identify the rank Ranales.
- 7. What are the major contributions of Theophrastus?
- Write down at least four important publications of Carolus Linnaeus.
- Write the name of monographic work published by Engler and his associate.
- 10. What is phenogram?
- 11. What do you mean by cladistics?
- 12. Define cladogram.
- 13. What are the advanced characters of leaves in angiosperms?
 - 14. Define monophyly and polyphyly.
 - 15. What do you mean by phylogenetic tree?

(Continued)

(3)

SECTION-B

Answer any five of the following questions: 6×5=30

- 16. What do you mean by molecular taxonomy?
 What are the roles of palynology in solving taxonomic problem?

 1+5=6
- Write a brief note on the objectives of systematic botany. Write a note on taxonomic key.
- 18. Write an elaborate note on the principles of priority with suitable example. State its limitation.
 5+1=6
- 19. Write an overview of the concept of family, genus and species.
- 20. What is phylogenetic system of classification? Describe the phylogenetic system of classification as proposed by Engler and Prantl. 1+5=6
- 21. Make a comparative account on the classification system proposed by Bentham and Hooker and Engler and Prantl.
- 22. Write short notes on (a) OTU and (b) numerical taxonomy. 3+3=6

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23.	Write down the principles of ICN.	6
	Write a brief note on the coevolution of angiosperms.	6
25.	Make a comparative list on primitive and advanced characters of angiosperms.	6
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