2022/TDC(CBCS)/EVEN/SEM/ BOTHCC-403T/275

TDC (CBCS) Even Semester Exam., 2022

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 questions of the following: 2×10=20

- Name the largest herbarium of India with its acronym.
- 2. Define bracketed key.
- 3. Name one State flora with its author(s).
- Define paratype with example.

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(Turn Over)

- 5. What do you mean by taxonomic hierarchy?
- 6. Identify the rank:
 - (a) Magnoliophyta
 - (b) Malvales
- Define artificial system of classification with an example.
- 8. Who is known as the father of Botany?
- 9. How many series are there in dicotyledons in Bentham and Hooker's system of classification?
- 10. What do you mean by character and character state?
- 11. Define OTU.
- 12. What is cluster analysis?
- 13. Define polyphyly.
- 14. What do you mean by co-evolution?
- 15. Define clade.

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SECTION—B

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16.	What do you mean by cytotaxonomy? Discuss the role of cytological data in solving taxonomic problems. 1+5	
17.	Write the role of herbarium in teaching and research. Define flora. 5+1	=6
18.	Write down the principles of ICN.	6
19.	Write an elaborate note on biological species concept.	6
20.	Write an overview of Takhtajan's system of classification.	6
21.	Write a brief account of angiosperm phylogeny group (APG III) classification.	6
22.	Write notes on phenogram and cladogram.	6
23.	Write down the principles of numerical taxonomy with merits and demerits.	6
	Write a brief note on the origin of angiosperms.	6
25.	Define the following:	=6
	(a) Homology and analogy	
	(b) Parallelism and convergence	
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