

X(3rd Sm.)-Botany-H/CC-7/CBCS

2022

BOTANY — **HONOURS**

Paper: CC-7

(Plant Systematics)

Full Marks: 50

The figures in the margin indicate full marks.

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

1.	Ans	swer any five of the following questions:	
	(a)	What is meant by tautonym? Give one example.	1+1
	(b)	State the importance of encyclopaedic phase.	2
	(c)	What do you mean by acronym 'P' and 'CAL'?	1+1
	(d)	Distinguish between Polyphyletic and Paraphyletic group.	2
),	(e)	What is cladogram?	2
	(f)	What is ochreate stipule and where is it found?	1+1
	(g)	What is meant by resupination?	2
2.	Wri	ite brief notes on any two of the following:	5×2
	(a)	Valid publication of a species	
	(b)	Principles of ICN	
	(c)	Role of herbaria in plant systematics	
	(d)	Numerical Taxonomy.	
3.	Ans	swer any three of the following:	
	(a)	demerit of this classification. Distinguish between natural and phylogenetic system of classification	one tion. +2+2
	(b)	Mention the diagnostic characters of the family Poaceae. State its systematic position as tre by Bentham and Hooker's system of classification. Name three species of economic important	ated

(c) Compare flower characters of the family Solanaceae and Scrophulariaceae. Draw floral diagram

and mention floral formula of both families.

5+3+2

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(d) Name the family where the following character is found and mention four diagnostic characters of the respective family: $(1+4)\times 2$

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- (i) Vittae
- (ii) Synandrous stamen.
- (e) Write notes on any two of the following:

- (i) Author citation of scientific name
- (ii) Supportive evidences from cytology in Taxonomy
- (iii) Plesiomorphic characters of Nymphaeaceae
- (iv) APG III Classification.

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