2022

BOTANY

[P.G.]

(M.Sc. Second SemesterEnd Examination-2022)

PAPER-201

[Taxonomy and Biosystematics]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

Unit-I

F.M=20

Answer any four Questions

4x1=04

- 1. Define any four of the following
 - a. Paratype
 - b. Holo taxonomy
 - e. Flora
 - d. Beta taxonomy
 - e. Tautonym.
 - f. Monograph
 - g. Superfluous names.

2. Write short notes on [Any two]

2x4=08

a. Utilities of the herbarium.

a. What are the basic principles of Biosystematics? Discuss the

b. Distinguish between parallelism and convergence. Write the

different categories of Biosystematics.

merits and demerits of numerical taxonomy.

1x8=08

3+5

3+5

3. Answer any one Question

	b. Role of Botanical Garden in ex- situ conservat	ion.
	c Primitive features of Magnoliidae.	
	d. Traditional and Digital Herbarium.	
3.	. Answer any one question	1x8=08
	a. Give the outline classification of A.Cronquisto	(1988). Discuss its
	merits and demerits.	4+4
	lae. What are	
	Biocodes and Phylocodes.	5+3
	Unit-II	
	F.M=20	
1	. Define any four of the following-	4x1=04
	a. Valid publication.	
	b. Classical taxonomy.	
	c. Numerical taxonomy.	
	d. Semantides.	
	e. Clades	
	f. Homoplasy.	
	g. Phylogenetic tree.	

2. Write short notes on [any two]

b. Cladogram and Phenogram.

d. Palynology in relation to taxonomy.

a. Paraphyly and polyphyly

e. Phenetics and cladistics

3.

2x4=08