

U.G. 4th Semester Examination - 2021**BOTANY****Course Code : BBOTCCHC403****Course Title : Plant Systematics**

Full Marks : 30

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **ten** of the following questions:

1×10=10

- Give the full name of ICNCP.
- What is identification key?
- Give the alternative name of the family Brassicaceae.
- Define Lectotype.
- What is valid publication?
- Who is known as 'The father of Botany'?
- What do you mean by Monograph?

- Name world's largest Botanical Garden.
- Define evolutionary Species Concept.
- What is e-flora?
- What is taxonomic hierarchy?
- What is clade?
- What is meant by artificial system of classification?
- Define parallelism.
- What is basionym?

2. Answer any **five** from the following questions:

2×5=10

- Give two examples of Herbaria outside India.
1+1
- Differentiate between isotype and paratype.
- Define flora. Give an example.
- Distinguish between homology and analogy with examples.
- Write down the major contributions of Linnaeus in Plant taxonomy.
- How phenetics differ from cladistics.
- Describe the author citation in the following:
Andropogon aromaticus Sieber ex Schult.

h) Differentiate between monophyly and paraphyly.

3. Answer any **two** from the following questions:

5×2=10

a) Write down the principles of ICN. 5

b) Write a brief account of the taxonomic evidences from phytochemistry. 5

c) Explain briefly the theories of evolution of angiosperms. 5
