

U.G. 3rd Semester Examination 2021

BOTANY (Honours)

Paper Code : DC-5

[CBCS]

Full Marks: 25

Time: 2 Hours

1. Answer any *five* of the following questions:

1×5=5

- a) What are plesiomorphic characters?
- b) What is Taxon?
- c) Mention the importance of e-flora.
- d) Define 'Type specimen'.
- e) What is labellum?
- f) Define the term -binomial nomenclature.
- g) Which is the most advanced family among the Dicots sensu APG?

2. Answer any *four* of the following questions:

3×4=12

- a) Write a brief note on the role of the virtual herbarium in plant taxonomy.
- b) Describe a few rules for 'rejection of names'.
- c) Schematically explain Parallelism and Convergence.
- d) What are the aims for preparing 'Keys'? Write the uses of multi-access Keys. (1+2)
- e) Write demerits of Takhtajan's system of classification.
- f) Why the family Orchidaceae is considered as most advanced and evolved among monocotyledons?
- g) Briefly explain the concept of typification in plant systematics.

3. Answer any *one* of the following questions :

8×1=8

- (i) Describe a few diagnostic features and floral formulas of the family Malvaceae and Asteraceae. Briefly mention the major contributions of Agustin de Candolle in plant taxonomy. (5+3)
- (ii) Define "Numerical Taxonomy". How are different taxonomic groups in numerical taxonomy constructed and how are they discriminated? State the principles of Numerical Taxonomy as outlined by Sneath and Sokal. (1+3+5)