

P.G. Semester-II Examination, 2023**BOTANY**

Course ID : 21354

Course Code : BOT204C(T)

Course Title : Taxonomy of Angiosperms

Time : 2 Hours

Full Marks : 30

*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 **four** of the following questions:

1×4=4

- What is Beta taxonomy?
- What do you mean by rules of priority in nomenclature of a taxon?
- What is cladogram?
- Define taxonomic hierarchy.
- Mention any two primitive features of the family Alismaceae(= Alismataceae).
- Where was the last IBC held? In chronological order mention its number.
- What are vicariads?

h) Write the meaning of APG-III in plant classification.

2. Answer any **two** of the following: 5×2=10

a) Define Biosystematics. Write the different steps of biosystematic study. 2+3=5

b) Write down the importance of Botanical Survey of India (BSI) in taxonomic studies. Name one Botanic garden in India of International repute. 4+1=5

c) What is numerical taxonomy? Describe the different steps involved in numerical taxonomy. 2+3=5

d) What are nomenclatural types? Describe the different situations lead to rejection of a name of a taxon. 1+4=5

3. Answer any **two** of the following: 8×2=16

a) What is a species? Briefly discuss the different concepts of a species. 2+6=8

b) What are the objectives of phytogeographic studies? Distinguish between static and dynamic approaches of phytogeography. State the theory of tolerance of Good to explain the distribution of plants. 2+4+2=8

- c) Why is Centrospermae considered as a natural taxon? Give a taxonomic treatment and evolutionary trend of this taxon. $2+6=8$
- d) Write the general features of Glumiflorae. Give a critical review of this taxon. $3+5=8$
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