

B.Sc. Semester-II Examination, 2023**BOTANY [Programme]**

Course ID : 21318 Course Code : SP/BOT/201/C-1B

Course Title : Plant Ecology, Morphology and Taxonomy

[OLD SYLLABUS]

Time : 1 Hour 15 Minutes

Full Marks : 25

*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 **five** questions of the following: $1 \times 5 = 5$
- What is a 'taxon'?
 - Name the largest herbarium in India.
 - What is phyllotaxy?
 - What do you mean by Soil profile?
 - Define biogeochemical cycle.
 - What is ecotone?
 - What do you mean by valid publication?
 - Define Endemism.

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

 $5 \times 2 = 10$

- a) What are the important morphological and anatomical adaptive features of xerophytes?

 $2 \frac{1}{2} + 2 \frac{1}{2} = 5$

- b) What is binomial system? What are the international rules of botanical nomenclature?

 $2 + 3 = 5$

- c) Mention the difference between food web and food chain.

5

- d) State the functions of Herbarium. What is the full form of ICN?

 $4 + 1 = 5$

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

 $10 \times 1 = 10$

- a) Elucidate the diagnostic characteristics of the family Asteraceae. Write two names of economically important plants of this family.

 $8 + 2 = 10$

- b) What do you mean by artificial system of classification? Give an outline classification of Bentham and Hooker's system.

 $2 + 8 = 10$