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B. Sc. Course (CBCS) Ordinance Sem-VI

EXAMINATION MAY 2023

BOTANY - PLANT ECOLOGY & PHYTOGEOGRAPHY

[Time: 2 Hours]

[Max. Marks:80]

- Instructions:**
- 1) All questions are **compulsory**; however **internal choice** is available.
 - 2) Answer sub-questions in Question 1 and Question 2, briefly.
 - 3) Figure to the **right** indicates **maximum** marks to the questions.
 - 4) Draw labelled diagrams **wherever** necessary.

Q1 Answer **any four** of the following: 16

- a) Differentiate between freshwater and marine ecosystem? Enlist the different zones.
- b) Mention the major characteristics of mangroves?
- c) What are the different types of soil water? Which one of them is the major form available for plants to absorb?
- d) What is precipitation? Enlist the different types.
- e) What is symbiosis? Briefly describe any one example in plants.
- f) Give a diagrammatic representation of phosphorous cycle.

Q2 Write short notes on **any four** of the following: 16

- 1) Trophic organization.
- 2) Physical weathering.
- 3) Ecological niche and types.
- 4) Evergreen forests of Goa.
- 5) Theory of tolerance.
- 6) Continental drift.

Q3 A) Describe the soil organic matter. 06

OR

- A) Write a note on different types of soils based on their texture. 06
- B) Write a short note on atmospheric moisture and its role on plants. 06

Q4 A) What is ecological pyramid? Describe pyramid of number. 06

OR

- A) Describe the different quantitative characters of a community. 06
- B) What is climax? Describe monocl意思 theory of succession. 06

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Q5 A) Describe a wetland ecosystem.

06

OR

A) Describe a sand dune ecosystem.

06

B) Write a note on the principles of energy flow. Mention the different energy flow models.

06

Q6 A) With the help of an illustration describe the carbon cycle.

06

OR

A) Write a short note on major principles of phytogeography.

06

B) What are biomes? List the major biomes of the world and briefly describe any one.

06