

**CARMEL COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN,  
NUVEM-GOA**

**SEMESTER END EXAMINATION, JUNE 2022**

Semester: **VI of B.Sc.**

Subject: **Botany**

Course Title: **Plant Ecology and Phytogeography**

Course Code: **BOC110**

Total Marks: **80**

Date: **/06/2022**

Duration: **2 Hours**

Total No. of Pages: **02**

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

Q.1. Answer **any four** of the following in brief:

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- i) What are the different forms of water in soil?
- ii) Draw a neat labelled diagram of water cycle.
- iii) How does atmospheric humidity influence plants?
- iv) What are sand dunes? Describe embryonic dune.
- v) List the importance of mangroves.
- vi) Describe productivity in an ecosystem.

Q.2. Write short notes on **any four** of the following:

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- a) Soil organic matter.
- b) Relative humidity.
- c) Characteristics of detritus food chain.
- d) Ecotone and edge effect.
- e) Y-shaped energy model.
- f) Autotrophy.

Q.3. A) Describe the components of an ecosystem. 6

OR

A) Explain the process of weathering. 6

B) Draw a neat labelled diagram and describe soil profile. 6

Q.4. A) Describe the different types of precipitation. 6

OR

A) How does precipitation as an ecological factor influence plants? 6

B) Define ecological pyramid. Briefly describe pyramid of biomass. 6

Q.5. A) Elaborate on the different steps of xerosere. 6

OR

A) Describe the process of succession. 6

B) Describe the different types of niche. 6

Q.6. A) With the help of a labelled diagram describe phosphorous cycle. 6

OR

A) Write an account on pond ecosystem. 6

B) Describe plateaus and add a note on their importance. 6

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