

**CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN,
NUVEM – GOA.**

SEMESTER END EXAMINATION, JUNE 2022

Semester: **II of B.A. and B.Sc.**

Subject: **GE (BOTANY)**

Course Title: **Coastal and Mangrove Ecology**

Course Code: **BOG 102**

Total Marks: **80**

Date: **/06/2022**

Duration: **2 Hours**

Total No. of Pages: **01**

Instructions: 1) *All questions are compulsory; however, internal choice is available.*
2) *Figures to the right indicate maximum marks assigned to the question.*
3) *Draw appropriate labelled diagrams wherever necessary.*

Q.1. Answer any four of the following: (4 x 4 = 16)

- a. State the ecological importance of sand dunes. List any 4 plants found on sand dunes.
- b. What are mangroves? List any three mangroves found in Goa.
- c. Write a note on the extent of mangrove distribution in India.
- d. Explain any four environmental conditions affecting mangrove ecosystem.
- e. List with examples the various pollination agents of mangroves.
- f. Name the various biochemicals present in mangroves.

Q.2. Answer any four of the following: (4 x 4 = 16)

- a. Write briefly on bacteria and fungi found in mangrove ecosystem.
- b. How does anthropogenic pressure affect the mangrove ecosystem?
- c. Write a note on microalgae and seagrasses found in mangrove ecosystem.
- d. List the halophytic characters of mangroves.
- e. Write a note on factors influencing litter decomposition.
- f. List four remedial measures to prevent damage caused to mangroves.

Q.3. A. Describe the biodiversity of mangroves. (6)

OR

- A. Discuss the methods of assessing mangrove biodiversity. (6)
- B. Elaborate on the different types of roots found in mangroves. (6)

Q.4. A. Discuss the different salt regulation mechanisms in mangroves. (6)

OR

- A. Discuss the factors which affect photosynthesis in mangroves. (6)
- B. Describe the three groups of mangroves as recognized by Tomlinson. (6)

Q.5. A. Explain any six factors affecting the diversity of mangroves. (6)

OR

- A. Give a general account on the fauna of mangrove ecosystem. (6)
- B. 'There is a need for the conservation of mangrove ecosystem'. Justify. (6)

Q.6. A. Explain any three chemical parameters to check water quality in mangrove ecosystems. (6)

OR

- A. Explain antagonism and competition in mangrove ecosystem with suitable examples. (6)
- B. Elaborate on oil pollution as a major factor affecting mangrove growth and development. (6)
