

C 22494

(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE [REGULAR/SUPPLEMENTARY]
EXAMINATION, APRIL 2022**

(CBCSS)

Botany

BOT 4E01 2—ENVIRONMENTAL BIOLOGY AND BIODIVERSITY CONSERVATION

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

General Instructions

1. *In cases where choices are provided, students can attend **all** questions in each section.*
2. *The minimum number of questions to be attended from the Section / Part shall remain the same.*
3. *The instruction if any, to attend a minimum number of questions from each sub section / sub part / sub division may be ignored.*
4. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

Part AI. Write short answer on any *four* of the following :

- 1 What is ecological foot print ?
- 2 Explain Allee principle.
- 3 Write a short note on the concept of habitat and ecological niche.
- 4 Explain the term ozone depletion.
- 5 What is metadatabase ?
- 6 Explain Biodiversity Act (2002).
- 7 Define carrying capacity. Write the factors which affect the carrying capacity of the population.

(4 × 2 = 8 weightage)

Turn over

Part B

II. Write short essay on any *four* of the following :

- 8 Briefly explain trade related IPR.
- 9 Write a short account on the taxonomic working groups in Plant Science.
- 10 Give a short account on the forest biome.
- 11 Briefly explain the mechanisms of population regulation.
- 12 Give an account on the types of interaction between two species.
- 13 Write a short essay on the Cairo conference.
- 14 Briefly explain interspecific competition and coexistence.

(4 × 3 = 12 weightage)

Part C

III. Write an essay on any *two* of the following :

- 15 Give an account on the modern methods of conservation practices.
- 16 Write an essay on the disaster management.
- 17 Briefly explain the forest types of Kerala.
- 18 Write a brief account on the causes and consequences of loss of biological diversity.

(2 × 5 = 10 weightage)