

C 4711

(Pages : 2)

Name.....

Reg. No.....

**SECOND SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, APRIL 2021**

(CBCSS)

Botany

**BOT 2C 06—PLANT ECOLOGY, CONSERVATION BIOLOGY, PHYTOGEOGRAPHY AND
FOREST BOTANY**

(2019 Admissions)

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. *There will be an overall ceiling for each Section / Part that is equivalent to the maximum weightage of the Section / Part.*

Part A

*Answer any **four** questions.
Each question carries 2 weightage.*

1. Discuss the minor forest products obtained from Kerala forests.
2. Write a note on global trends in primary productivity.
3. What are the various sources of land pollution ? Write the harmful effects of metal pollutants on human health.
4. Explain biotic potential and carrying capacity of a population.
5. Describe age and area hypothesis.
6. What is deep ecology ? Why is it important ?
7. Write notes on environmental risk assessment.

(4 × 2 = 8 weightage)

Turn over

Part B

*Answer any **four** questions.
Each question carries 3 weightage.*

8. Give an account on the zonation and communities in Marine habitat.
9. What is green house effect ? How green house effect occurs in nature ? Mention the relative contribution of major green house gases.
10. Define Endemism. Explain different types of endemism and factors responsible for endemism.
11. 'Forests are important natural resource'. Comment and discuss the status of forest cover in India.
12. Write an account on the need, merits and scope of bioremediation.
13. Discuss the biodiversity at national and local level.
14. Discuss the Wildlife Preservation Act (1972). How it helps to protect the wildlife in India ?

(4 × 3 = 12 weightage)

Part C

*Answer any **two** questions.
Each question carries 5 weightage.*

15. Give an account on the different patterns of plant distribution with examples.
16. Define water pollution. Give an account of various types of water pollution. What are the major sources of water pollution ? Suggest methods of control.
17. Give an account on the role of government and NGOs engaged with environment management programme at global, national and regional level.
18. What is conservation of biodiversity ? Describe different strategies of conservation of biodiversity.

(2 × 5 = 10 weightage)