

C 83025

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Name.....

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SECOND SEMESTER M.A./M.Sc./M.Com. DEGREE EXAMINATION, JUNE 2020  
(CBCSS)

Reg. No.....

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

Botany

(2019 Admissions)

Time : Three Hours

Maximum : 30 Weightage

### Part A

*Answer any four questions.*

*Each question carries 2 weightage.*

1. Explain GAIA Hypothesis. Why is it important ?
2. Comment on keystone species and flagship species.
3. Describe circum boreal and circum austral type of plant distribution.
4. Differentiate between lentic and lotic communities with examples.
5. What is desertification ? What are the main factors responsible for desertification ?
6. Write a short account on water pollutants and its effects on living organism. Write the control measures of water pollution.
7. Comment on International Biological Programme (IBP).

(4 × 2 = 8 weightage)

### Part B

*Answer any four questions.*

*Each question carries 3 weightage.*

8. Explain mortality and different types of mortality. Mention the different types of survivorship curves to plot the pattern of mortality.
9. Discuss the values of biodiversity.
10. What is environmental hazard ? Briefly describe different categories and causes of environmental hazards.
11. What is ozone layer depletion ? What are the mechanism and effects of ozone depletion ?
12. Explain 'Age and Area' hypothesis and the problem of endemism.

Turn over

13. Write a short essay on the sustainable use of natural resources and ecosystem service in a changing climate.
14. What is MAB? What are its project areas? Discuss the role of MAB in environmental management in India.

(4 × 3 = 12 weightage)

### Part C

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

15. Define Phytochoria. Describe different biogeographic regions of the world.
16. Give an account of sources and pollutants of air pollution. What are the methods to prevent and control air pollution?
17. Write an essay on the environmental laws in India. Discuss the main issues in enforcement of environmental legislation.
18. Give an account of the red list categories. What are the causes of extinction? Comment on the hot spots of Indian biodiversity.

(2 × 5 = 10 weightage)