

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2180

M.Sc. (Final) Examination, 2022

BOTANY

Paper - VII(b)

(Advanced Plant Ecology-I)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Population Ecology
- (ii) Scope of Ecology
- (iii) Ecosystem restoration

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- (iv) Sustainability indicators
- (v) Pond as an Ecosystem
- (vi) Food chain in grassland and aquatic habitat
- (vii) Name any *two* International Conventions.
- (viii) Edge effect
- (ix) Environmental ethics
- (x) Greenhouse Gases

Section-B

Unit-I

2. Briefly explain the holistic concept of the environment.

Or

Describe the Climatic and Edaphic factors.

Unit-II

3. Briefly explain the various models of energy flow.

Or

Illustrate the concept of Ecosystem resistance and resilience.

Unit-III

4. Write a note on the productivity and its various types.

Or

Explain the characteristic features of fresh water ecosystem.

Unit-IV

5. Write a short note on the Hot-spots of India.

Or

Name the various organisations working for the conservation of nature.

Unit-V

6. Write a note on Red Data Book.

Or

Write a note on thermal pollution.

Section-C

7. Write an essay on the causes, types and process of plant succession.
8. Write a detailed note on evolution of ecosystem.
9. What is Forest Ecosystem ? Write its types, characteristic features, structure and functions in detail.
10. Write an essay on the types and conservation of natural resources.
11. Write an essay on the Environmental Impact Assessment.