

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPP-1072**

**M.Sc. (Previous) Examination, 2022**

**BOTANY**

Paper - III

**(Ecology, Phytogeography, Ethnobotany  
and Economic Botany)**

*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.

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**BPP-1072** P.T.O.

### Section–A

1. Briefly explain :

- (i) What are Ecological pyramids ?
- (ii) Contributions of Indian scientist to development of Plant Ecology.
- (iii) Define air pollution as per WHO.
- (iv) Role of UNESCO.
- (v) Geographical barriers.
- (vi) Shifting cultivation.
- (vii) Write the eight main centers of origin proposed by Vavilov (1926).
- (viii) Botanical name and family of any *two* spices yielding crops of Rajasthan State.
- (ix) Enlist alkaloids present in Opium.
- (x) Botanical name and family of Shankhpusphi and Safed musli.

### Section–B

#### Unit–I

2. Write a brief account on the Laws of Thermodynamics.

*Or*

Explain briefly the sources of soil pollution.

## Unit-II

3. What are the significant differences between National Parks and Biosphere reserves ?

*Or*

What is Agroforestry ? Briefly describe its characteristic features and impact on desert agriculture.

## Unit-III

4. Write a detailed account on the objectives and methods for studying ethnobotany.

*Or*

Discuss briefly the distribution patterns of vegetation.

## Unit-IV

5. Discuss briefly the kinds, development and quality of cotton fibers.

*Or*

Briefly comment on vegetable oil-yielding crops of your State.

## Unit-V

6. Discuss briefly the cultivation practices of Industrial plants.

*Or*

Briefly discuss the botany and chemical constituents present in Commiphora and Aloe.

### Section–C

7. What are mineral cycles ? Add a critical note on the impact of P cycle on global climate.
8. Write a detailed account on the concept, process and model formats for EIA studies.
9. Write an explanatory note on the major biomes of the world with special reference to the vegetation of the Indian Thar desert.
10. Discuss briefly the origin, botany, cultivation and utilization of wheat.
11. Name any five unexploited plants and their botanical names of potential economic value with special reference to Rajasthan desert. Briefly discuss their importance.