

B.Sc. (CBCS Pattern) Semester-IV  
**012B - Botany Paper-II - Plant Ecology-II**

P. Pages : 2

Time : Three Hours



**GUG/S/25/11993**

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw well labelled diagrams wherever necessary.

**1.** Write on:

- a) Soil Profile. 5
- b) Define ecology and write about its branches & significance. 5

**OR**

Write short notes on:

- c) Atmosphere 2½
- d) Climatic factor-light 2½
- e) Mycorrhiza 2½
- f) Interaction between plants and soil microorganisms. 2½

**2.** Write on:

- a) Ecological Pyramids 5
- b) Components of Ecosystem. 5

**OR**

Write short notes on:

- c) Food Web 2½
- d) Control measures of Air Pollution 2½
- e) Nitrogen Cycle 2½
- f) Food Chain 2½

**3.** Write on:

- a) Define Autecology. Give its parameters. 5
- b) Characteristics and importance of Ecotype. 5

**OR**

Write short notes on:

- |   |    |
|---|----|
| c) Life forms                             | 2½ |
| d) Community dynamics                     | 2½ |
| e) Ecad                                   | 2½ |
| f) Synthetic characteristics of community | 2½ |

4. Write on:

- |   |   |
|---|---|
| a) Define plant succession. Write on Hydrosere. | 5 |
| b) Phytogeographical regions of India.          | 5 |

**OR**

Write short notes on:

- |  |    |
|--|----|
| c) Continental drift                               | 2½ |
| d) Climax concept                                  | 2½ |
| e) Phytogeographic studies of Gadchiroli district. | 2½ |
| f) Central India                                   | 2½ |

5. Write **any ten** questions in one or two lines only. **10x1=10**

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|---------------------|-----------------|
| a) Humus            | b) Mesotherms   |
| c) Pedogenesis      | d) Detritivores |
| e) Trophic level    | f) Acid rain    |
| g) Synecology       | h) Growth curve |
| i) Commensalism     | j) Xerosere     |
| k) Western Himalaya | l) Nudation     |

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