

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

P. Pages : 2

Time : Three Hours



GUG/W/24/11993

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with suitable examples and draw well labelled diagrams wherever necessary.

- 1.** Write notes on :
- a) Soil profile. **5**
 - b) Branches of Ecology & significance of ecology. **5**

OR

Write short notes on :

- c) Physical properties of soil. **2½**
- d) Atmosphere. **2½**
- e) Interaction between plants and animal. **2½**
- f) Light as ecological factor. **2½**

- 2.** Write notes on :
- a) Ecological pyramid. **5**
 - b) Water cycle. **5**

OR

Write short notes on :

- c) Control of air pollution. **2½**
- d) Food chain (grazing) **2½**
- e) Biotic component of ecosystem. **2½**
- f) Food web. **2½**

- 3.** Write notes on :
- a) What is autecology? Write about importance of autecology. **5**
 - b) What is synecology? Write about the Life Forms. **5**

OR

Write short notes on :

- c) Sigmoid growth curve. 2½
- d) Characteristics of ecotype. 2½
- e) Ecad. 2½
- f) Quantitative. 2½

4. Write notes on :

- a) What is plant succession? Write about the xerosere of plant succession. 5
- b) Describe about the phytogeographical zones of India. 5

OR

Write short notes on :

- c) Causes of succession. 2½
- d) Climax concept. 2½
- e) Continental drift. 2½
- f) Deccan 2½

5. Write in one or two lines **any ten** (Diagram not necessary) 10

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|-------------------|-----------------------|
| a) Megatherms. | b) Laam |
| c) Mycorrhiza | d) Nitrogen fixation. |
| e) Eutrophication | f) BOD |
| g) J-curve | h) Population |
| i) Community | j) Submerged stage |
| k) Indus plane | l) Western coast |
