

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

P. Pages : 2

Time : Three Hours



**GUG/W/23/11993 (S)**

Max. Marks : 50

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

**1.** Write on-

- a) Properties of soil. 5  
b) Atmosphere. 5

**OR**

Write short notes on-

- c) Pedogenesis (physical only) 2½  
d) Soil profile. 2½  
e) Light as ecological factor. 2½  
f) Interaction between plants growing in a community. 2½

**2.** Write on-

- a) Ecological pyramids. 5  
b) Nitrogen cycle. 5

**OR**

Write short notes on-

- c) Food chain (grazing only). 2½  
d) Water cycle. 2½  
e) Air pollution control measures. 2½  
f) Food web. 2½

**3.** Write on-

- a) Ecotype-characteristics and importance. 5  
b) Growth curves. 5

**OR**

Write short notes on-

- c) Life forms. 2½
- d) Ecad. 2½
- e) Analytical characters of community. 2½
- f) Parasitic interaction. 2½

4. Write on-

- a) Climax concept. 5
- b) Xerosere. 5

**OR**

Write short notes on-

- c) Causes of succession. 2½
- d) Phytogeography of Gadchiroli district. 2½
- e) Eastern Himalaya. 2½
- f) Continental drift. 2½

5. Write **any ten** questions in one or two lines only. **1x10**

- a) Ecology
- b) Sciophytes
- c) Myrmecophyli
- d) Ecosystem
- e) Precipitation
- f) Biogeochemical cycle.
- g) Fidelity
- h) Frequency
- i) Ecotype
- j) Sere
- k) Phytogeography
- l) Dry deciduous forest

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