

B.Sc. (With Credits)-Regular-Semester 2012 Sem V  
**B.Sc.3508 - Botany : Paper-II (Plant Ecology)**

P. Pages : 2

Time : Three Hours



**GUG/W/16/3357**

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. What is Ecology? Explain branches of Ecology and its significance. **10**

**OR**

Write notes on :

a) Air pollution and its control. **5**

b) Abiotic components of Ecosystem. **5**

2. What is Autoecology? Explain its parameters and importance. **10**

**OR**

Write notes on :

a) Causes of succession. **5**

b) Ecological adaptations in Hydrophytes. **5**

3. Write short notes on –

a) Soil profile. **2½**

b) Food chain. **2½**

c) Community dynamics. **2½**

d) Xerosere. **2½**

**OR**

e) Physical properties of soil. **2½**

f) Nitrogen cycle. **2½**

g) Ecad. **2½**

h) Botanical zones. **2½**

4. Write short notes on –
- a) Pedogenesis. 2½
  - b) Ecological pyramid of Biomass. 2½
  - c) Growth curve. 2½
  - d) Climax concept. 2½

**OR**

- e) Interspecific Interaction. 2½
  - f) Energy flow. 2½
  - g) Synthetic characters of community. 2½
  - h) Epiphytes. 2½
5. Write answers of **any ten** in two of three lines only. **10**

- a) Atmosphere.
- b) Biota.
- c) Habitat.
- d) Food web.
- e) Ecotone.
- f) Swamp.
- g) Life form.
- h) Community.
- i) Population.
- j) Monoclimax.
- k) Halophytes.
- l) Artic zone.

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