

B.Sc. Sem-V
B.Sc. 3508 - Botany Paper-II (Plant Ecology)

P. Pages : 2

Time : Three Hours



GUG/W/19/1329

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 soil? Explain in details soil profile. 10

OR

Write notes on.

a) Ecological Pyramid. 5

b) Sources of Air pollution. 5

2. What is autecology? Write in details the growth curve. 10

OR

a) Xerosere. 5

b) Morphological adaptations in hydrophytes. 5

3. Write short notes on.

a) Branches of ecology. 2½

b) Biotic components. 2½

c) Types of ecotype. 2½

d) Climax concept. 2½

OR

e) Effects of temperature on plants. 2½

f) Food web. 2½

g) Ecad. 2½

h) Halophytes. 2½

4. Write short notes on.

a) Significance of ecology. 2½

- b) Carbon cycle. 2½
- c) Life Forms. 2½
- d) Mesophytes. 2½

OR

- e) Mutualism. 2½
- f) Control of water pollution. 2½
- g) Characteristics of community (Analytical) 2½
- h) Causes of succession. 2½

5. Write answers of **any ten** in two or three lines only (Diagrams are not necessary).

- a) Stratosphere. 1
- b) Interspecific interaction. 1
- c) Rhizosphere. 1
- d) Abiotic factors. 1
- e) Primary consumers. 1
- f) Acid rain. 1
- g) Ecad. 1
- h) Commensalism. 1
- i) Phenology. 1
- j) Monoclimax. 1
- k) Ecological adaptation. 1
- l) Western Himalayas. 1
