

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

P. Pages : 2

Time : Three Hours



GUG/S/23/11993

Max. Marks : 50

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

1. a) Define Atmosphere? Write detail on different layers of Atmosphere. 5
b) Define Soil Profile? Give its distinct horizons. 5

OR

- c) Physical weathering 2½
d) Interaction plants & soil microbes 2½
e) Branches of Ecology. 2½
f) Light as ecological factor. 2½
2. a) Explain Nitrogen cycle. 5
b) Sources & control measures of Water pollution. 5

OR

- c) Pyramid of Energy. 2½
d) Food web 2½
e) Abiotic components of Ecosystem. 2½
f) Grazing food chain 2½
3. a) Population growth curve. 5
b) Raunkiaer life-forms. 5

OR

- c) Ecads. 2½
d) Parasitism. 2½
e) Community Dynamics. 2½
f) Transect method 2½

4. a) Define plant succession? Write on Xerosere. 5
- b) Phytogeographical regions of Chandrapur & Gadchiroli. 5

OR

- c) Continental drift. 2½
- d) Phytogeographical zone. 2½
- e) Phytogeographical studies of Deccan (Western Himalaya). 2½
- f) Reed-swamp stage. 2½
5. Write **any ten** questions in one or two lines only. (Diagrams are NOT necessary).
- a) Pedogenesis. 1
- b) Myremecophily. 1
- c) Hekistotherms. 1
- d) Nitrogen fixation. 1
- e) Trophic level. 1
- f) CFC. 1
- g) Commensalism. 1
- h) Calcicol. 1
- i) Helophytes. 1
- j) Serule. 1
- k) Eastern Himalaya. 1
- l) Wester Coast. 1
