

M.Sc.(Biotechnology) Fourth Semester Old
BT4-T013 - Environmental Biotechnology Paper - I

P. Pages : 1

Time : Three Hours



GUG/W/18/2354

Max. Marks : 80

Notes : 1. All questions are compulsory and carry equal marks.

1. Discuss in detail about different types and sources of air pollutants. 16
- OR**
- Write note on-
- a) Ozone depletion. 8
- b) Microbial and radioactive water pollutants. 8
2. Discuss the term 'ecological pyramid' and explain the various types of Ecological Pyramids. 16
- OR**
- a) Give an account on structure and function of Ecosystem. 8
- b) Explain with example about 'bioaccumulation'. 8
3. Explain the term 'Bio-energy' and add note on non-conventional sources of energy. 16
- OR**
- a) Explain how Biotechnology is useful in biofuel production. 8
- b) Describe 'Carbon Cycle'. 8
4. Describe the mechanism of nitrogen fixation and add note on nitrogenase enzyme. 16
- OR**
- Give an account on-
- a) Fungi as biofertilizer. 8
- b) Role of rDNA technology in nitrogen fixation. 8
5. Write note on-
- a) Need for environmental education. 4
- b) Degradative Plasmids. 4
- c) Biogas Plant. 4
- d) Symbiotic nitrogen fixation. 4
