

M.Sc.(Biotechnology) (CBCS Pattern) Semester - IV  
**PSBIT-113 - Paper-I : Environmental Biotechnology**

P. Pages : 1

Time : Three Hours



**GUG/S/23/11351**

Max. Marks : 80

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

1. Give detail account on different types of water pollutants. **16**
- OR**
- a) What are the various sources of air pollution? **8**
- b) Give an detail accounts on Ozone depletion. **8**
2. Explain the degradation of xenobiotics in environment. **16**
- OR**
- a) Discuss abiotic components of the ecosystem. **8**
- b) Describe various types of ecological pyramids. **8**
3. Give detail account on nitrogen cycle. **16**
- OR**
- a) Discuss about biofilters with suitable examples. **8**
- b) What are the renewable sources of energy? **8**
4. Explain different types of biofertilizers. **16**
- OR**
- a) Discuss about integrated pest management. **8**
- b) Describe role of earthworm as biofertilizer. **8**
5. Write short notes on:
- a) Green house effect. **4**
- b) Biomagnification. **4**
- c) Biogas. **4**
- d) nif-gene. **4**

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