

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

P. Pages : 1

Time : Three Hours



**GUG/W/22/11351**

Max. Marks : 80

---

Note : All questions are compulsory and carry equal marks.

1. What is water pollution? Describe types of water pollution in detail. **16**
- OR**
- Write notes on-
- a) Green house effect. **8**
- b) Environmental Pollution. **8**
2. What are Xenobiotics compound? Write a note on degradation of xenobiotics in environment. **16**
- OR**
- Write a note on-
- a) Ecosystem structure and function. **8**
- b) Biomagnification. **8**
3. Explain in detail carbon cycle with diagrammatic representation. **16**
- OR**
- Write a note on-
- a) Petroleum Plants. **8**
- b) Biofuels and their uses. **8**
4. Describe in detail mechanism of symbiotic nitrogen fixation. **16**
- OR**
- Write a note on-
- a) Fungi as biofertilizer. **8**
- b) r-DNA technology in nitrogen fixation. **8**
5. Write short notes on- **16**
- a) Need of environmental education.
- b) Bioconversion.
- c) Need of bioresources.
- d) Bacterial biofertilizers.

\*\*\*\*\*