

M.Sc. (Biotechnology) (CBCS Pattern) Semester-IV
PSBIT-113 - Environmental Biotechnology

P. Pages : 1

Time : Three Hours



GUG/S/25/11351

Max. Marks : 80

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

1. Define Water Pollution? Describe in detail types of water pollution. **16**
- OR**
- i) Write on ozone depletion. **8**
- ii) Note on environmental pollutants. **8**
2. Describe in detail ecological pyramids and their types. **16**
- OR**
- i) Write a note on biomagnification. **8**
- ii) Discuss degradation of xenobiotics in environment. **8**
3. Describe in detail biogeochemical carbon cycles. **16**
- OR**
- i) Give the account of biochips and their uses. **8**
- ii) Discuss renewable sources of energy. **8**
4. Describe in detail mechanism nitrogen fixation. **16**
- OR**
- i) Write a note on bacterial biofertilizers. **8**
- ii) Give the account of biopesticide and integrated pest management. **8**
5. Write in short – all compulsory?
- i) Write on acid rain. **4**
- ii) Write on bioaccumulation. **4**
- iii) Write on biofuel cells. **4**
- iv) Write on nif gene. **4**
