

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11351

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry marks as indicated.
2. Draw diagram wherever necessary.

1. Describe air pollution with reference to sources, ecology and pollutants. **16**
OR

Write note on the following.

a) Environmental pollutant. **8**

b) Greenhouse effect and acid rain. **8**

2. Describe in detail biotic and abiotic components of the ecosystem. **16**
OR

Write note on.

a) Types of ecological pyramids. **8**

b) Xenobiotic degradations in environment. **8**

3. Describe Carbon cycle in details with diagrammatic representation. **16**
OR

Write note on the following.

a) Biogas plant. **8**

b) Biochips with suitable example. **8**

4. Describe in detail the mechanism of Symbiotic nitrogen fixation. **16**
OR

Describe the following.

a) Bacterial bio-fertilizer. **8**

b) Bio-pesticide and integrated pest management. **8**

5. Write a short note on.
a) Eutrophication. **4**

b) Biomagnification. **4**

c) Biofuel cell and their uses. **4**

d) Role of rDNA technology in nitrogen fixation. **4**
