

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

P. Pages : 1

Time : Three Hours



**GUG/W/18/11351**

Max. Marks : 80

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- Notes : 1. All question are compulsory and carry equal marks.  
2. Draw well labelled diagrams wherever necessary.

1. a) Explain ozone depletion and its effect on environment. 8  
b) Describe process of eutrophication. 8

**OR**

- c) Why there is need of Environmental education. 8  
d) Explain sources of air pollutants. 8  
2. Describe various types of ecological pyramids with example. 16

**OR**

- Explain process of Bioaccumulation and bioconcentration. 16  
3. Write a note on.  
a) Non conventional sources of energy. 8  
b) Biogas and its process. 8

**OR**

- Explain carbon cycle in detail. 16  
4. Explain role of nit gene and r-DNA technology of Nitrogen fixation. 16

**OR**

- a) Explain algal biofertilizer with example. 8  
b) Explain Biopesticides with example. 8  
5. Write a short note on.  
a) Radioactive pollutants. 4  
b) Decay behaviour. 4  
c) Petroleum plants. 4  
d) Bacterial biofertilizer. 4

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