

M.Sc.-I (Environmental Science) (CBCS Pattern) Semester - II  
**PSCENVT07 / PSENVT07 - Environmental Disaster and Environmental  
Biotechnology**

P. Pages : 1

Time : Three Hours



**GUG/S/23/11205**

Max. Marks : 80

- Notes : 1. All questions are compulsory and carry equal marks.  
2. Illustrate the answer with suitable examples and diagrams.

1. What is geological hazard? Explain floods and snow avalanches as environmental hazards. **16**

**OR**

a) Explain drought with its causes and effects **8**

b) Write a note on Disaster Management Authority of India. **8**

2. Describe classification of micro-organisms and their role in air, water and soil. **16**

**OR**

a) Discuss the techniques used for enrichment of culture. **8**

b) Explain role of microbes in activated sludge process. **8**

3. Describe in brief role of micro-organisms in energy and biomass production. **16**

**OR**

a) Explain biotechnological approach of environmental pollution. **8**

b) Discuss in-situ and ex-situ bioremediation in brief. **8**

4. Explain research design w.r.t need, features and concept. **16**

**OR**

a) Describe need and types of sampling. **8**

b) State the significance of report writing with its steps. **8**

5. a) Write a note on earthquake resistance buildings. **4**

b) State the importance of environmental microbiology. **4**

c) What are biopesticides? **4**

d) Explain basic principles of experimental designs. **4**

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