

**USENV DST-13 - Environmental Science Paper-I : Environmental Management**

P. Pages : 1

Time : Three Hours



**GUG/S/23/13353**

Max. Marks : 50

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

1. Discuss various factors affecting solid waste generation. **10**  
**OR**  
a) Describe composting method for treatment of the solid waste. **5**  
b) Write a short note on management of biomedical waste. **5**
2. What are the objectives of wastewater treatment? Explain primary sedimentation. **10**  
**OR**  
a) Discuss activated sludge process of wastewater treatment. **5**  
b) Briefly explain ozone treatment, as tertiary treatment. **5**
3. Discuss material modification and end of pipe technology. **10**  
**OR**  
a) Explain the concept of 'Polluter pay principle'. **5**  
b) Explain role and purpose of EMS. **5**
4. Briefly explain the various stages in prior environmental clearance process. **10**  
**OR**  
a) State the scope and objectives of Environmental Audit. **5**  
b) Write a short note on Environmental Management Plan at construction phase. **5**
5. Answer in brief **any ten**. **10**  
a) Define solid waste.  
b) What are the three 'R' s of waste management?  
c) What do you mean by E-waste?  
d) Mention the types of screens on the basis of their opening size.  
e) What is the full form of CETP?  
f) What is the purpose of grit removal?  
g) Define carbon trading.  
h) Give full form of UNFCCC.  
i) What does ISO stand for?  
j) Define EA.  
k) What is EIA?  
l) What does EIS stand for?

\*\*\*\*\*