

B. Sc. 4521 - Environmental Science Paper-I (Environmental Management)

P. Pages : 2

Time : Three Hours



GUG/S/19/1347

Max. Marks : 50

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

1. Describe sanitary land filling method for treatment of the solid waste. **10**

OR

Discuss activated sludge process with the help of flow sheet. Add a note on step aeration as type of ASP.

2. Briefly discuss the cleaner technologies w. r. t. pollution reduction at source and material modification. **10**

OR

Discuss EIA process w. r. t. screening, scoping and public participation.

3. a) What are the sources of solid waste? **2¹/₂x4 =10**
b) Outline the objectives of wastewater treatment.
c) Which tools are used for prevention of the pollution?
d) What are the benefits of environmental audit?

OR

- e) Classify hazardous waste.
f) Explain the working of screen in wastewater treatment plant.
g) Describe clean development mechanism.
h) Briefly describe elements of EIA process
4. a) Write a short note on E-waste management. **2¹/₂x4 =10**
b) Describe methods for the disposal of wastewater.
c) Write origin of environmental management system.
d) What are the objectives of environmental audit?

OR

- e) Explain methods of collection of solid waste.
- f) Briefly describe the concept of common effluent treatment plant.
- g) Write informative note on ecological footprint.
- h) How green belt are developed around an Industry?

5. Answer in 2 - 3 lines **any ten.**

**1x10
=10**

- a) Define solid waste.
- b) Name any two components included in biomedical waste.
- c) What is incineration of solid waste?
- d) Which type of impurities are removed by grit chamber?
- e) What is Ion exchange?
- f) What is ultraviolet filtration?
- g) What is a purpose of constructing green building?
- h) ISO 14023:2004 is stand for.
- i) What is carbon credit?
- j) What is EIS?
- k) Define EA.
- l) Name any two methodologies of EIA.
