

Bachelor of Science (B.Sc.) (Part-III) Sixth Semester  
**B.Sc. 4521 - Environmental Science Paper-I (Environmental Management)**

P. Pages : 2

Time : Three Hours



**GUG/W/18/1347**

Max. Marks : 50

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

1. Describe methods for biomedical waste management. 10

**OR**

Describe activated sludge as a method for treatment of wastewater.

2. State origin of EMS. Explain core elements of EMS. 10

**OR**

Give objectives of EIA. Describe stages in prior environmental clearance process.

3. a) State factors affecting solid waste generation rate. 2½

b) Briefly explain method for grit removal. 2½

c) How pollution reduction at source can be achieved? 2½

d) Give design of an EIA. 2½

**OR**

e) Describe incineration method for treatment of solid waste. 2½

f) Give an account on up-flow anaerobic sludge blanket reactor. 2½

g) Explain industrial rating as a tool for pollution prevention. 2½

h) State scope and objectives of environmental audit. 2½

4. a) Give classification of hazardous waste. 2½

b) How wastewater can be disposed and reused? 2½

c) Write a note on carbon trading. 2½

d) State environmental management plan for construction phase. 2½

**OR**

- e) Describe chemical methods for treatment of hazardous waste. 2½
- f) Explain stabilization pond. 2½
- g) How public disclosure contributes in pollution control? 2½
- h) Discuss elements of the EIA process. 2½

**5.** Answer in 2-3 lines **any ten.** **10**

- a) What is composting?
- b) Define hazardous waste.
- c) Name any two methods for collection of solid waste.
- d) What is sedimentation?
- e) What CETP stands for?
- f) Why activated sludge is called so?
- g) Define eco-labelling.
- h) Kyoto protocol is associated with.
- i) What is ecological foot print?
- j) Name plant species used in green belt development.
- k) Define environmental audit.
- l) What EIS stands for?

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