

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

- 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?
