

**Bachelor of Science (B. Sc.) Semester-IV (CBS) Examination****ENVIRONMENTAL SCIENCE  
(Soil Pollution & Waste Management)****Paper-I**

Time : Three Hours]

[Maximum Marks : 50

**Note :—** (1) All questions are compulsory and carry equal marks

(2) Illustrate your answer with suitable examples and diagrams.

1. What are the objectives of soil sampling ? Explain collection and handling of soil. 10

**OR**

(a) Define pesticidal pollution. What are the effects of this pollution on soil environment ? 5

(b) Write informative note on persistent pesticides. 5

2. Classify solid waste. What are the source of urban and industrial solid waste ? 10

**OR**

(a) What is composting ? How does aerobic decomposition differ from anaerobic decomposition ? 5

(b) Explain disposal of solid waste by sanitary landfill. 5

3. Explain the important control parameter for an optimum composting operation. What are the merits of composting as a solid waste treatment process ? 10

**OR**

(a) Discuss the generation of biogas from MSW. 5

(b) Write on informative note on municipal solid waste (management and handling rules-2000) 5

4. Define hazardous waste. Distinguish between hazardous and non-hazardous waste. 10

**OR**

(a) State the categories of the biomedical wastes. 5

(b) What are the methods of disposal of electronic waste. 5

5. Write in brief (Any ten) :

(a) Give broad classification of synthetic fertilizer.

(b) What do you understand by bio-magnification ?

(c) What is the chemical name for DDT ?

(d) Write composition of solid waste.

(e) Name the factors affecting solid waste generation rate.

(f) Define pyrolysis.

(g) What are the merits of vermicomposting ?

(h) State the objectives of solid waste sampling ?

(i) What is bio-gasification ?

(j) Name the technology which is suitable for medical waste disposal

(k) Name the methods of disposed of radioactive waste.

(l) In which condition sanitary land fill treatment is suitable ? 1×10=10