

[01 - 4112]

IV/IV B.E. DEGREE EXAMINATION.

First Semester

Civil Engineering

Elective II – ELEMENTS OF SOLID WASTE
MANAGEMENT

(Common for Civil and Civil Environmental
Engineering)

(Effective from the Admitted Batch of 2006–2007)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Importance of solid waste management.
- (b) Define solid waste and garbage.
- (c) Factors affecting solid waste collection productivity.
- (d) Advantages of Transfer stations.
- (e) Define composting and incineration.
- (f) Define recovery and recycling of solid waste.
- (g) List the types of land fills in solid waste management.

2. Write a notes on sources, types and characteristics of solid waste.
3. (a) Discuss about classification of solid waste.
(b) How to prevent and minimize solid waste?
4. (a) Give guidelines for collection route layout.
(b) Discuss the principles of waste management.
5. List the various methods of material segregation and explain them in brief.
6. (a) Write the factors affecting solid waste collection productivity.
(b) Discuss the problems due to improper disposal of solid waste.
7. (a) Explain the process options at transfer stations.
(b) Advantages and Disadvantages of incineration.
8. (a) Write notes on methods of waste disposal.
(b) Write notes on municipal waste disposal methods.