

Code: CE7T5D

IV B.Tech - I Semester – Regular Examinations – October - 2017

**SOLID WASTE MANAGEMENT
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11 x 2 = 22

1.

- a) Differentiate between solid waste and hazardous waste.
- b) List out different types of municipal solid waste.
- c) Write the importance of solid waste separation.
- d) Outline the classification of collection routes of solid waste.
- e) Explain the necessity of transfer station.
- f) Classify various processing techniques.
- g) Prioritize the factors to be considered in selection of disposal site.
- h) Explain how an Incinerator helps to reduce pollution?
- i) Write a short note on ‘composting’.
- j) Write a short note on plastic waste management.
- k) Write the composition of E-Waste.

PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Explain the effects of improper disposal of solid waste on human health & environment. 8 M
b) Discuss the scope and objectives of onsite storage and handling. 8 M
3. a) Explain the methods of collection system with a flow diagram. 8 M
b) Classify the types of transfer station and illustrate the factors to be addressed when considering a potential site for transfer station. 8 M
4. a) Outline the objectives of waste processing. 8 M
b) Describe various options for the disposal of solid wastes and the relative merits of disposal options. 8 M
5. a) Explain the process of Pyrolysis for solid waste disposal. 8 M
b) Describe the classification of composting technologies and discuss the steps involved in the composting process. 8 M

6. a) Explain in detail about recycling and disposal of plastic waste. 8 M

b) Elaborate various methods to be adopted in dealing with E-Waste. 8 M