



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 197406**

Roll No.

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## B. Tech.

(SEM. IV) THEORY EXAMINATION, 2014-15  
**SOLID WASTE MANAGEMENT**

Time : 2 Hours]

[Total Marks : 50

**Note :** Attempt **all** questions.

**1 Attempt any Four of the following: (2.5×4)**

- a. What are the causes of municipal solid waste generation?
- b. Explain the public health impacts of solid wastes.
- c. What are the methods used to estimate the quantities of solid waste generation?
- d. Explain the functional elements of solid waste management.
- e. What are the factors need to be considered for on-site storage of solid waste?.
- f. What is your opinion about the success of the solid waste management program in your area?

- 2 Attempt any Two of the following: (5×2)**
- What are the methods used for the collection of solid waste in your area?
  - What do you mean by screening? Also explain various screening equipments used for solid waste screening.
  - Explain the process of densification. Why do we need to compact the solid waste?
- 3 Attempt any Two of the following: (5×2)**
- What are the objectives of landfilling? Explain its advantages over open dumping.
  - Describe the site selection criteria of sanitary landfill.
  - Explain different phases for the generation of the principal landfill gases with neat and clean graph.
- 4 Attempt any Two of the following: (5×2)**
- What is aerobic composting? Explain the significance of C/N ratio in composting.
  - Explain various thermal conversion technologies being practiced in India.
  - Explain various techniques used for composting.
- 5 Attempt any Two of the following: (5×2)**
- Explain different control systems used to control the landfill gas movement.
  - Describe physical and chemical characteristics of municipal solid waste.
  - Write note on electronic waste and hazardous waste.