

Code: CE7T6D

IV B.Tech - I Semester – Regular Examinations – November 2015

**SOLID WASTE MANAGEMENT
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Explain in detail on classification of solid waste based on sources, types and composition. 7 M
- b) Explain in detail the effects of improper disposal of solid waste with an emphasis on public health. 7 M
2. a) What is the significance of waste handling? Explain in detail various on site solid waste separation methods. 7 M
- b) Explain in detail various on site solid waste storage methods with an emphasis on Indian Conditions. 7 M
3. a) Explain in detail various methods of collection of solid waste. What are the advantages and disadvantages of door to door collection? 7 M
- b) Explain in detail various types of vehicles and man power requirement for waste collection. 7 M

4. a) Explain in detail about the need for transfer operations. 7 M
- b) Explain in detail various means and methods of transport of waste. 7 M
5. a) Explain in detail about density and magnetic separation. 7 M
- b) Explain in detail about incineration. 7 M
6. a) List out various types of disposal of waste. Explain in detail about the factors affecting site selection for a Sanitary landfill. 7 M
- b) Explain in detail about various operational and maintenance problems in Sanitary Landfill with an emphasis on leachate. 7 M
7. a) Explain in detail about the waste generation and current practices in biomedical waste management. 7 M
- b) Explain in detail about environmental concerns and colour coding for biomedical waste storage and collection. 7 M
8. a) Explain in detail about recycling and disposal of plastic waste. 7 M
- b) Explain in detail about E-waste management with an emphasis on hazards of E-Waste. 7 M