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10CT832

**Eighth Semester B.E. Degree Examination, June/July 2019**  
**Solid Waste Management**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1 a. Explain the inter – relationship between functional elements of solid waste management with a flow diagram. (10 Marks)  
b. Enumerate the methods used to estimate waste quantities. (10 Marks)
- 2 a. Explain Hauled container system with a neat sketch. (10 Marks)  
b. Describe the various transport methods of solid waste. (10 Marks)
- 3 a. Discuss the factors that should be considered in evaluating on site processing techniques. (10 Marks)  
b. Explain mechanical volume reduction and mechanical size reduction. (10 Marks)
- 4 a. Describe the principle components in the design of municipal incinerators. (10 Marks)  
b. List different equipments used in prevention of air pollution. With a neat sketch explain any one equipment. (10 Marks)

**PART – B**

- 5 a. Explain the various factors affecting aerobic composting. (10 Marks)  
b. Differentiate between aerobic and anaerobic composting. (10 Marks)
- 6 a. Explain the factors that govern the selection of site for sanitary landfilling. (10 Marks)  
b. Discuss the methods of controlling movement of gases in landfills. (10 Marks)
- 7 a. Discuss ocean disposal method and feeding to Hogs methods of disposal with advantages and disadvantages. (10 Marks)  
b. Explain sanitary landfilling method of disposal with a neat sketch. (10 Marks)
- 8 a. Explain the classification, identification codes and uses of common plastics. (10 Marks)  
b. Write short notes on :  
i) Vermicomposting    ii) Energy recovery operation. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.