

Roll No .....

## MTEE-203

M.E./M.Tech., II Semester Examination, June 2020

### Solid Waste Management

Time : Three Hours

Maximum Marks : 70

**Note:** i) Attempt any five questions.

ii) All questions carries equal marks.

1. a) Explain the physical and chemical properties of Solid Waste with its significance. 7  
b) Discuss the integrated solid waste management. 7
2. a) Discuss the problems of sorting and separation. 7  
b) Explain soil microbes and their influence in waste disposal. 7
3. What is engineered land fill? Why it is essential? Explain in brief different methods of landfilling. 14
4. a) Discuss reuse and recycling for solid waste alleviation. 7  
b) Explain the components and unit operations for waste incinerator operation problems. 7
5. a) What are the factors which affects the composting process? Explain. 7  
b) What is leachate? How it can be controlled? 7
6. a) Explain dewatering and conditioning systems of solid waste. 7  
b) Discuss solid waste acts. 7
7. a) What are the important factors for the design consideration in Anaerobic composting? 7  
b) Explain the necessity of public education and persuasion managed solutions to collect and disposal problems. 7
8. a) What is pyrolysis? With a neat sketch, explain the process of pyrolysis. 7  
b) Explain the process of anaerobic diagestion. 7

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