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**Anna University Exams Nov. /Dec. 2014 – Regulation 2008
Rejinpaul.com Important Questions – 7th Semester BE/BTECH**

CE2039 – MUNICIPAL SOLID WASTE MANAGEMENT

UNIT I

1. Explain the methods of sampling and characterization of solid wastes as per MSW
2. What is meant by solid waste management? Explain the functional elements that are needed for solid waste management with neat sketch.
3. Explain the factors influencing solid waste generation
4. Discuss the importance of public awareness and role of NGOs in effective solid waste management.
5. Enumerate the classification of solid wastes based on its composition and characteristics.
6. Discuss the possibilities in solid waste management with respect to reduction, reuse and recovery. And discuss the factors affecting solid waste generation in a city.
7. State & explain the various environmental legislation for MSW.

UNIT II

1. What is magnetic separation of solid waste? Explain process for magnetic separation? What are the factors influence the effectiveness of magnetic separation?
2. Explain why handling and storage of solid waste varies in urban and rural areas. Describe the various methods of sorting the solid waste.
3. Explain the types of waste collection systems based on their mode of operation with a neat sketch.
4. Explain the different on-site process on solid waste. List out the factors influencing equipment selection for on-site processing of solid wastes.
5. Explain the types, mode of action, and application of equipment used for component separation.
6. Discuss the ways of sorting the solid waste at various sources of generation. What are the considerations in the selection of material and capacity of storage containers

Unit – III

1. Discuss the types of transfer stations and the benefits of transfer stations that affect community in terms of economics, time savings and environmental quality.
2. What is the need for transfer operation? Also explain the functions of transfer stations.
3. What are the types of containers and collection vehicles used for the collection of solid waste? Explain the solid waste collection practice and discuss its role in waste management.
4. Discuss the various methods of house – to house solid waste collection and their advantage
5. Explain the methods of collection of solid waste from a source of generation
6. Describe the types of vehicle and the requirement of vehicle for transportation of waste
7. Write detailed note on Nuisance caused by garbage loaded open trucks on high way and Setting up transfer station
8. Briefly outline the important factors that must be considered in the storage, labeling and handling of hazardous waste.

UNIT – IV

1. Draw a flow chart showing the steps involved in the aerobic composting process. Explain the factors affecting composting process.
2. How does Incineration help in the management of solid waste? Describe the incineration technologies and air emissions and its control in detail.



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3. Explain the various options for the disposal of solid wastes and the relative merits of disposal
4. Draw schematic diagram of a in-line multiplier chamber incinerator and specify the parts.
5. Discuss the factors affecting waste composting and the methods of its control.
6. Describe the factors to be considered in the selection of waste processing equipments.
7. What are the important factors affecting composting? How they are controlled during composting?
8. Explain with neat sketches about the pyrolysis and incineration – pyrolysis process?

UNIT – V

1. Explain the various phases of MSW decomposition in a closed landfill cell. How do leachate and gases differ b/w each phase? What are the factors which affect production of leachate & landfill gas?
2. Explain a typical gas vents used in the surface of a landfill for the control of landfill gas.
3. Explain the various methods of leachate treatment.
4. Explain in detail the important aspects in the implementation of sanitary landfill.
5. Explain the step by step procedure involved in site selection for sanitary landfills
6. With the help of a neat sketch explain the essential components of a sanitary landfill and their functions. Also explain its advantages and disadvantages of sanitary landfill.
7. Enlist the key characteristics of an engineered landfill that distinguishes it from an open dump.
8. With the help of a neat sketch describe the operational components of a landfill and state their functions.

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