

Uka Tarsadia University (Diwaliba Polytechnic)
Diploma in Environmental Engineering
Assignment (Solid Waste Management-020060604)

Unit-1 Introduction to Solid Waste Management

1. What are the sources of Solid Waste?
2. Enlist collection methods and explain any one?
3. Explain composition of Indian solid waste?
4. What are the types of material recovered from Municipal Solid Waste?
5. What are the factors affecting generation of Municipal Solid Waste?
6. What are the types of Solid Waste?
7. Define "Waste" and which are the source of Solid Waste?
8. Discuss the factors affecting generation of Municipal Solid Waste.
9. List out the types of material recovered from Municipal Solid Waste.

Unit-2 Municipal Solid Waste collection and transfer

1. Explain briefly biological properties of Municipal solid waste.
2. Explain briefly chemical properties of Municipal solid waste.
3. Write a short note on collection system.
4. Explain briefly physical properties of Municipal solid waste.
5. Write a short note on transfer of solid waste.
6. Write a short note on Pulping.
7. Write a short note on storage of solid waste at the sources.
8. Explain briefly on shredding.

Unit-3 Processing Techniques

1. Define sanitary landfill and explain types of sanitary landfill
2. Write a short note on mechanical volume reduction?
3. Explain in detail about Rotary kiln incinerator.
4. Write a short note on types of compaction equipment?
5. Write a short note on chemical volume reduction of solid waste?
6. Enlist types of air separation and explain any one?
7. Explain briefly Drying & Dewatering of solid waste.
8. Enlist types of incineration and explain any one?
9. Define 1) Landfill, 2) Secured landfill, 3) Monofill 4) Sanitary landfill
10. What is the volume reduction? Explain in brief about any one type of volume reduction.

Unit-4 Solid Waste disposal Techniques

1. What are the characteristics of hazardous solid waste?
2. Explain briefly classification of hazardous solid waste?
3. Write a short note on hazardous waste management?
4. Explain the hazardous waste category and their sources?
5. Explain briefly on classification of Hazardous solid waste?
6. Write a short note on identification of hazardous solid waste?
7. Write your perspective about hazardous waste management of India?

Unit- 5 Hazardous Solid Waste Management

1. Write an application of solid waste management rules 2016? and Define following term 1. “Material Recovery Facility ” 2)“Refused derived fuel”
2. Write a “Duties of waste generator” according to solid waste management rules 2016?
3. What is responsibilities of state government for environmentally sound management of hazardous and other waste?
4. Define the term according to construction & demolition rules 2016? “Construction & Demolition Waste” “Waste generator” “De- construction” “Demolition”
5. What are the responsibilities of municipal authority according to municipal Solid waste rules 2000?
6. What is the duties of ministry of environment & forest and climate change according to Solid waste management 2016?
7. Write a short note on “Plastic waste management”?

Unit-6 Biomedical Waste Management

1. What are the types of biomedical waste?
2. Classified biomedical waste based on biomedical waste categories
3. What are the standards for disinfection of biomedical waste?
4. Write a different type of biomedical waste with their treatment and disposal option?
5. Write a section:8 segregation, packaging, transportation and storage of biomedical waste 2016.
6. Disinfection is use for which type of biomedical waste 2016?