

M.Sc. Part-II (Environmental Science) Third Semester Old Course  
**MSc2374 - Solid & Hazardous Waste Management Paper-IV**

P. Pages : 1

Time : Three Hours



**GUG/W/18/2265**

Max. Marks : 80

- Notes :
1. All questions are compulsory and carry equal marks.
  2. Illustrate the answers with suitable diagrams and examples.

1. What are the types of solid waste? Discuss factors affecting solid waste generation rate. Give the physical composition of solid waste. **16**  
  

**OR**

  - a) Describe types of solid waste collection system. **8**
  - b) Explain magnetic and electrochemical separation of solid waste. **8**
2. Discuss operational procedure of sanitary landfills. What types of problems arise during landfilling? **16**  
  

**OR**

  - a) How anaerobic digestion of solid waste is done? **8**
  - b) Write a brief account on composting of solid waste. **8**
3. Discuss toxicity characteristics of hazardous waste in detail. **16**  
  

**OR**

  - a) Explain bioaccumulation and biomagnification. **8**
  - b) Explain mutagenicity and carcinogenicity in brief. **8**
4. Explain the components of hazardous waste management plan. How waste can be minimized? **16**  
  

**OR**

  - a) Describe solid and liquid waste treatment in detail. **8**
  - b) Describe the construction of secured landfill. **8**
5.
  - a) Explain how material recovery helps in solid waste management. **4**
  - b) Describe incineration of solid waste management. **4**
  - c) How storage of hazardous waste is done? **4**
  - d) Write a note on solidification and stabilization of hazardous waste. **4**

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