

M.Sc. (Part-II) (Environmental Science) (CBCS Pattern) Semester-III  
**PSCENVT11-B - Core Elective : Solid and Hazardous Waste Management**

P. Pages : 1

Time : Three Hours



**GUG/S/25/11264**

Max. Marks : 80

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

1. Discuss classification of solid waste. 16
- OR**
- a) Explain characteristics of solid waste. 8
- b) Describe types of collection of solid waste. 8
2. Describe design criteria and operational procedure for sanitary landfills. 16
- OR**
- a) Briefly explain gasification and pyrolysis. 8
- b) Explain problems occurs due to municipal solid waste landfilling. 8
3. Discuss collection methods of hazardous waste. 16
- OR**
- a) Explain basic division of toxicity of hazardous waste. 8
- b) Discuss types of hazardous waste. 8
4. Discuss components of hazardous waste management plan. 16
- OR**
- a) Briefly explain elements of solid waste minimization program. 8
- b) Give the disposal method of leachates. 8
5. a) Give the types of solid waste. 4
- b) How to separate municipal solid waste component manually. 4
- c) What is bioaccumulation and biomagnification? 4
- d) Briefly explain function of secured landfill. 4

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