

M.Sc. (Part-II) (Environmental Science) (CBCS Pattern) Semester-III
**PSCENV11-B - Core Elective Paper-XI : Solid and Hazardous Waste
Management**

P. Pages : 1

Time : Three Hours



GUG/W/24/11264

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.

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| 1. | Discuss physical and chemical composition of solid wastes. | 16 |
| | OR | |
| | a) Describe equipment for collection of solid waste. | 8 |
| | b) Explain dewatering and drying methods. | 8 |
| 2. | Discuss composting and incineration as methods of solid waste management. | 16 |
| | OR | |
| | a) Explain integrated waste management. | 8 |
| | b) Describe design criteria for sanitary landfills. | 8 |
| 3. | Discuss types of hazardous wastes. | 16 |
| | OR | |
| | a) Describe carcinogenicity and genotoxicity as public health hazards. | 8 |
| | b) Explain corrosivity and reactivity as toxicity of hazardous waste. | 8 |
| 4. | Explain design and construction of secured landfill. | 16 |
| | OR | |
| | a) Write components of hazardous waste management plan. | 8 |
| | b) Describe elements of waste minimization programme. | 8 |
| 5. | a) Write characteristics of solid waste. | 4x4 |
| | b) Explain 3R's of solid waste management. | =16 |
| | c) Describe method of storage of hazardous waste. | |
| | d) Give benefits of waste minimization. | |
