

M.Sc. - II (Environmental Science) CBCS Pattern Semester-III
PSCENVT11B - Core Elective Paper-XI
Solid and Hazardous Waste Management

P. Pages : 1

Time : Three Hours



GUG/W/23/11264

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. Explain types of solid waste. Discuss factors affecting solid waste generation. **16**
- OR**
- a) Describe types of collection systems. **8**
b) Explain chemical composition of solid wastes. **8**
2. Explain composting method for conversion of municipal solid waste. **16**
- OR**
- a) Describe design criteria of sanitary landfill. **8**
b) Explain incineration of solid waste. **8**
3. Discuss types of hazardous waste w.r.t. nuclear waste, biomedical waste and chemical waste. **16**
- OR**
- a) Explain bioaccumulation and biomagnification. **8**
b) Explain how hazardous waste identification is carried out. **8**
4. Explain design and construction of secured landfill. **16**
- OR**
- a) Discuss thermal destruction of hazardous waste. **8**
b) Describe components of hazardous waste management plan. **8**
5. a) Explain classification of solid wastes. **4**
b) Discuss reuse and recycling of solid waste. **4**
c) Describe ignetivity and corrosivity of hazardous waste. **4**
d) Explain benefits of waste minimization. **4**
