

M.Sc. Part-II (Environmental Science) (CBCS Pattern) Third Semester
PSCENVT11-2 / PSCENVT-11 - Core Elective
Solid and Hazardous Waste Management Paper-XI

P. Pages : 1

Time : Three Hours



GUG/W/18/11264

Max. Marks : 80

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

1. Explain in detail classification of solid waste. Discuss factors affecting solid waste generation rate. **16**

OR

- a) Discuss types of collection of solid waste. **8**
- b) Give the characteristics of solid waste. **8**

2. Describe design criteria for sanitary landfills. Explain its operational procedure. **16**

OR

- a) Explain in detail gasification and pyrolysis. **8**
- b) Which problems occurs due to municipal solid waste landfilling. **8**

3. How to identify hazardous waste? Discuss in detail collection method for hazardous waste. **16**

OR

- a) Explain basic division of toxicity of hazardous waste. **8**
- b) Give the types of hazardous waste. **8**

4. Discuss components of hazardous waste management plan. Describe solidification and stabilization as methods for hazardous waste management. **16**

OR

- a) Explain treatment and disposal method of leachates for secured landfilling. **8**
- b) Discuss elements of solid waste minimization program in detail. **8**

- 5.
- a) How material recovery from solid waste is achieved. **4**
 - b) How to separate municipal solid waste component manually? **4**
 - c) What is bioaccumulation and biomagnification. **4**
 - d) Explain function of secured landfill. **4**
