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GIET UNIVERSITY, GUNUPUR - 765022

Ph.D. (First Semester) Examinations, January - 2024

PPECHE1020 - Industrial Solid Waste Management (Chemical)

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

Answer ANY FIVE Questions

(14 x 5 = 70 Marks)

	Marks
1.a. Explain the public health effects in Municipality Solid Waste Management.	4
b. Explain how modifying a product can help minimize the wastes with few examples.	10
2.a. Interpret the solid waste characteristics.	4
b. Examine the various physico-chemical biological characteristics of solid waste.	10
3.a. Waste is a misplaced resource" Justify this statement.	4
b. What is integrated management, public awareness and explain the role of NGO's.	10
4.a. Explain in detail about the Onsite processing / Segregation.	4
b. Discuss in detail about off-site processing techniques.	10
5.a. What is In-Vessel composting?	4
b. What are the properties of compost?	10
6.a. Enumerate about the functional elements of solid waste management.	4
b. Examine the different factors that influence the decision-making process in the implementation of a Solid Waste System.	10
7.a. Discuss the main Steps in Anaerobic Treatment of MSW.	4
b. Define secure landfills.	10
8.a. How Environmental Pollution Control (EPC) Measures Incineration Plants.	4
b. Enumerate about the systems being used to remove H ₂ S from biogas based on chemical, bio-chemical processes or physical processes.	10

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