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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September 2024 Supplementary Examinations

Programme: B.E.

Branch: Common to all Branches

Course Code: 23CV1ESWMT / 23CV2ESWMT

Course: WASTE MANAGEMENT

Semester: I / II

Duration: 3 hrs.

Max Marks: 100

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I			CO	PO	Marks
1	a)	Elucidate the functional elements of solid waste management through the use of an organized flow chart.	<i>CO1</i>	<i>PO6</i>	10
	b)	Assess the obstacles and advancements in the realm of solid waste management within India.	<i>CO1</i>	<i>PO7</i>	10
UNIT - II					
2	a)	Conduct a comparative analysis regarding waste production and composition between developing and developed nations.	<i>CO1</i>	<i>PO6</i>	10
	b)	Explicate the physical and chemical characteristics of solid waste.	<i>CO1</i>	<i>PO7</i>	10
UNIT - III					
3	a)	Discuss the key issues involved in the disposal of solid waste.	<i>CO2</i>	<i>PO6</i>	10
	b)	Describe with an illustrative diagram, the key components of a sanitary landfill.	<i>CO2</i>	<i>PO7</i>	10
OR					
4	a)	Investigate diverse options available for the disposal of solid waste.	<i>CO2</i>	<i>PO6</i>	10
	b)	Discuss the distinction between a stationary container system and a hauled container system using a clear diagram.	<i>CO2</i>	<i>PO7</i>	10
UNIT - IV					
5	a)	Describe component separation and examine the diverse techniques utilized for separating components in solid waste.	<i>CO3</i>	<i>PO6</i>	10

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

	b)	Explicate the drying and dewatering process of solid waste, and analyze various techniques employed for drying and dewatering.	CO3	PO7	10
		OR			
6	a)	Define the concepts of recycling and recovery concerning solid waste, and delineate the diverse methodologies employed for recycling and recovering solid waste materials.	CO3	PO6	10
	b)	Delineate commonly recycled materials with examples and explicate the process of recycling them.	CO3	PO7	10
		UNIT - V			
7	a)	Explore different strategies employed for minimizing hazardous waste and preventing pollution.	CO4	PO6	10
	b)	Elucidate various methods available for the treatment of hazardous waste.	CO4	PO7	10
