

U.S.N.

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.

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

	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
