CBCS SCHEME

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BCV515C

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Solid Waste Management

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Define the term Solid Waste. Explain the different types of Solid Waste.	10	L2	CO1
	b.	Explain the different classification of Solid Waste.	10	L2	CO1
		OR			
Q.2	a.	Appraise the policies and legislative framework of Solid Waste Management.	10	L2	CO1
	b.	Describe the Integrated Solid Waste Management with neat flow chart.	10	L2	CO1
		Module – 2			
Q.3	a.	List and explain the various factors affecting the generation of Solid Waste.	10	L2	CO2
	b.	List and explain the methods used to estimate the quantities of waste.	10	L2	CO2
		OR			
Q.4	a.	Describe the various physical and chemical properties of Solid Waste characterization.	10	L2	CO2
	b.	Describe the various biological characteristics of waste.	10	L2	CO2
		Module – 3			
Q.5	a.	List and explain the different methods of storage systems.	10	L2	CO3
	b.	List and explain the on site processing techniques in Solid Waste.	10	L2	CO3
		OR			
Q.6	a.	Distinguish between Hauled container and Stationary container system in collection of Solid Waste.	10	L2	CO3
	b.	Evaluate the different factors considered designing of Hauled Container System.	10	L2	CO3
		Module – 4			
Q.7	a.	Define the term Special Waste. Explain the different classification of Special Waste.	10	L2	CO3
	b.	Define the term land fill. Explain the different components used in land fill.	10	L2	CO3
		OR			

Q.8	a.	With a neat sketch, explain Lining Material used in landfill site.	10	L2	CO4
	b.	Explain with a neat sketch the Incineration process used in managing waste.	10	L2	CO4
Module – 5					
Q.9	a.	Describe the importance of legislation and discuss the two case studies applied to hazardous waste management system.	10	L2	CO4
	b.	Explain the different techniques processing used in construction and demolition waste.	10	L2	CO4
OR					
Q.10	a.	Explain the importance of Life cycle assessment in Solid Waste Management.	10	L2	CO5
	b.	Define the term B.M.W. Explain the different sources of Bio medical waste.	10	L2	CO5

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