

CBCS SCHEME

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BETCK105F

First Semester B.E./B.Tech. Degree Examination, June/July 2026 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.	List and explain the factors affecting Solid Waste Management System.	10	L1	CO1
	b.	Define Solid Waste, solid waste management system and explain the Classification of solid waste based on the sources.	10	L2	CO1
OR					
Q.2	a.	Briefly explain the Indian and Global scenario of E-Wastes.	10	L2	CO1
	b.	Write a note on Environmentally sound solid waste management and environmentally sound technologies.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the factors that affects the Quantity and Composition of Solid Waste.	10	L1	CO2
	b.	Explain the various physical and chemical characteristics of Solid Waste.	10	L2	CO2
OR					
Q.4	a.	Explain the various environmental effects and public health hazards due to inadequate and improper Solid Waste Management.	10	L3	CO2
	b.	Write a note on generation and composition of Solid Waste.	10	L3	CO2
Module – 3					
Q.5	a.	Explain the different factors that affects the selection of landfill sites.	10	L3	CO3
	b.	Write a note on Hauled Container and Stationary Container System.	10	L2	CO3

OR

Q.6	a.	Explain with neat sketches, the different methods of Sanitary land filling.	10	L3	CO3
	b.	Briefly explain the Process of Leachate Collection and Landfill Gas Collection.	10	L3	CO3

Module – 4

Q.7	a.	Explain the importance and advantages of recycling of solid waste.	10	L4	CO4
	b.	Explain the Mechanical Volume reduction of solid waste by any one method in detail.	10	L3	CO4

OR

Q.8	a.	Explain Drying and Dewatering with its significance in Waste processing.	10	L4	CO4
	b.	Explain with neat sketch the types of Magnetic Separation Techniques.	10	L3	CO4

Module – 5

Q.9	a.	List the types of hazardous Waste and explain the Biomedical Waste Management in detail.	10	L3	CO5
	b.	What are hazardous Wastes? Explain its characteristics.	10	L3	CO5

OR

Q.10	a.	Explain any two types of hazardous waste treatment.	10	L4	CO5
	b.	Explain the step by step procedure of recycling of E-Wastes.	10	L4	CO5
