



CBCS SCHEME

USN

MCA	Library								
-----	---------	--	--	--	--	--	--	--	--

BETCK105F

First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 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 Solid Waste. Explain the various functional elements of solid waste management system.	10	L2	CO1	
	b.	Discuss the different technologies available for solid waste management system.	10	L2	CO1	
OR						
Q.2	a.	Explain the factors affecting the solid waste management system.	10	L2	CO1	
	b.	Write a short note on Indian Scenario and Global scenario of E - waste.	10	L2	CO1	
Module – 2						
Q.3	a.	What are the effective solid waste management steps to be followed to avoid public health? Explain briefly.	10	L2	CO2	
	b.	Explain the process of Waste Stream Assessment (WSA)?	10	L2	CO2	
OR						
Q.4	a.	Explain the physical and chemical characteristics of waste generation.	10	L2	CO2	
	b.	Explain the generation and composition of waste.	10	L2	CO2	
Module – 3						
Q.5	a.	List the factors which affect the selection of transfer station.	10	L2	CO2	
	b.	Explain the various stages involved in sanitary landfills.	10	L2	CO2	
OR						
Q.6	a.	What is a Transfer Station? Explain its types based on its size.	10	L2	CO2	
	b.	Describe the various options of disposal of solid waste.	10	L2	CO2	
Module – 4						
Q.7	a.	Discuss the mechanical volume and size reduction of waste.	10	L2	CO3	
	b.	Explain the Hydraopulper used in size reduction in waste processing techniques.	10	L2	CO3	
OR						

Q.8	a.	Explain briefly magnetic components separation techniques with neat sketch.	10	L2	CO3
	b.	What is Recycling? Write a note on significance of Recycling of solid waste.	10	L2	CO3
Module – 5					
Q.9	a.	What is Hazardous waste? Explain the characteristics of Hazardous waste.	10	L2	CO4
	b.	Explain physical and chemical treatment of hazardous waste.	10	L2	CO4
OR					
Q.10	a.	Describe the five general categories of Hazardous wastes.	10	L2	CO4
	b.	Explain the concept of pollution prevention and waste minimization of hazardous waste in industries.	10	L2	CO4
