

# CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

BME306D

## Third Semester B.E./B.Tech Degree Examination, June/July 2024 Waste Handling and 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.	Explain briefly the method of waste logistics.	10	L2	CO1
	b.	Write a note on : i) Importance of waste logistics ii) Waste handling equipments.	10	L2	CO1
OR					
Q.2	a.	Explain the steps involved in waste management logistics.	10	L2	CO1
	b.	Explain the environmental aspects of waste collection.	10	L2	CO4
Module – 2					
Q.3	a.	Explain the characteristics of solid waste.	10	L2	CO2
	b.	Write a note on mechanical treatment of solid wastes in a material recovery facility.	10	L2	CO2
OR					
Q.4	a.	Define composting and explain any two method of composting of solid wastes.	10	L2	CO2
	b.	Briefly explain the following : i) Gasification of solid wastes ii) Refuse derived fuel.	10	L2	CO2
Module – 3					
Q.5	a.	Define hazardous waste and briefly explain its characteristics.	10	L2	CO1
	b.	Briefly explain the sources and environmental effects of : i) Industrial waste ii) Plastic waste.	10	L3	CO4
OR					
Q.6	a.	Write a note on effects of E-waste on society and environment.	10	L3	CO4
	b.	Briefly explain the hazardous waste landfill site section.	10	L3	CO3
Module – 4					
Q.7	a.	Write a note on remediation of hazardous waste contaminated sites.	10	L2	CO4
	b.	Write a note on entrepreneurship activities in waste management.	10	L3	CO4
OR					
Q.8	a.	Write a note on waste management practices in India.	10	L3	CO4
	b.	Briefly explain large scale composting for municipalities.	10	L2	CO3
Module – 5					
Q.9	a.	Write a note on the hazardous waste rules 2008.	10	L2	CO5
	b.	Write a note on plastic waste rules 2011.	10	L2	CO5
OR					
Q.10	a.	Briefly explain importance of E-waste management rules in India.	10	L3	CO5
	b.	Write a note on duties of constitutional bodies and ministries in environment protection.	10	L2	CO5

\*\*\*\*\*