

CBCS SCHEME

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BME306D

Third Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 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 in detail about the importance of Waste Management.	10	L2	CO1
	b.	Write a note on waste handling equipment and technology.	10	L2	CO1
OR					
Q.2	a.	Explain in detail the role of public authority and private sector in waste collection.	10	L2	CO1
	b.	Explain the different ways of organizing collection of residential waste. And also explain how it impact on waste management.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the different types of solid waste.	10	L2	CO1
	b.	Explain the processing and treatment of solid waste.	10	L2	CO2
OR					
Q.4	a.	Explain the two methods of composting.	10	L2	CO2
	b.	Explain the dumping of solid waste.	10	L2	CO2
Module – 3					
Q.5	a.	Explain the sources and classification of Hazardous waste.	10	L2	CO3
	b.	What is biomedical waste? Mention the sources of biomedical waste, and also explain the challenges in handling biomedical waste.	10	L3	CO3
OR					
Q.6		Write a note on the following:	20	L2	CO1
	a.	Industrial waste			
	b.	E-waste			
	c.	Nuclear waste			
	d.	Biomedical waste			
Module – 4					
Q.7	a.	Explain the methods of land filling.	10	L2	CO4
	b.	What is recycling and reuse in the waste management? Explain briefly.	10	L2	CO4
OR					
Q.8	a.	Explain the best practices followed in India for waste handling and management.	10	L2	CO4
	b.	What is composting? Explain the methods followed in medium and large scale composting.	10	L2	CO4
Module – 5					
Q.9		Write a brief note on the following:	20	L3	CO5
	a.	Duties of constitutional bodies and ministries			
	b.	Environmental Protection Act			
	c.	Plastic waste management and handling rules			
	d.	E-waste management and handling rules.			
OR					
Q.10		Write brief note on the following:	20	L2	CO5
	a.	The batteries waste management and handling rules			
	b.	Biomedical waste management and handling rules			
	c.	Plastic waste handling and management rules			
	d.	E-waste handling and management rules			

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