CBCS SCHEME

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BCV515C

EPCET LIBRARY BANGALORE-49

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
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.	Briefly, discuss the policies and Legislative framework of solid waste management.	10	L2	CO1
	b.	Briefly explain the classification in solid waste management.	10	L2	CO1
		OR			
Q.2	a.	Discuss the Role of stakeholders in solid waste management.	10	L2	CO2
	b.	Discuss the need of solid waste management and explain the concept of 3R.	10	L2	CO2
		Module – 2			
Q.3	a.	Explain the various factors affecting the solid waste generation.	10	L2	CO2
	b.	Briefly, explain the physical properties of municipal solid waste.	10	L2	CO2
		OR			
Q.4	a.	Briefly, explain the different methods to estimate the quantity of waste generated.	10	L2	CO2
	b.	Briefly, explain the chemical and Biological properties of solid waste.	10	L2	CO2
		Module – 3			
Q.5	a.	Distinguish between Haulid container system and stationary container system with a schematic diagram.	10	L2	CO2
	b.	What are transfer stations? Briefly explain any two types of Transfer station.	10	L1	CO2
		OR			
Q.6	a.	Briefly, discuss the types of solid waste collection services and outline the importance of onsite processing.	10	L2	CO2
	b.	Briefly explain the following : i) Collection vehicle ii) Types of storage containers.	10	L2	CO2
		Module – 4			
Q.7	a.	Define RDF. Explain the steps unvalued in RDF.	10	L1	CO3
	b.	What is comporting? Explain the Bangalore method of computing with neat sketch.	10	L1	CO3

		OR			
Q.8	**a.**	What are the factors to be considered while designing a land fill?	**10**	**L2**	**CO3**
	b.	What is incineration? Discuss the advantages and disadvantages of incineration?	**10**	**L2**	**CO5**
		Module – 5			
Q.9	**a.**	Briefly explain the effects and disposal methods of E-waste.	**10**	**L2**	**CO3**
	b.	Explain the effects and disposal of construction and demolition waste.	**10**	**L1**	**CO3**
		OR			
Q.10	**a.**	Explain the classification of Biomedical wastes.	**10**	**L1**	**CO3**
	b.	Explain the Life Cycle Assessment in waste management.	**10**	**L1**	**CO3**

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