CBCS SCHEME

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BETCK105F/BETCKF105

First Semester B.E./B.Tech. Degree Examination, June/July 2024
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.	Classify the Solid Waste based on its source of generation.	10	L2	CO1
	b.	With a neat diagram, explain the functional elements of Solid Waste Management.	10	L2	CO1
		OR			
Q.2	a.	Explain type based classification of Solid Waste.	10	L2	CO1
	b.	Explain the factors affecting Solid Waste Management.	10	L2	CO1
		Module – 2			
Q.3	a.	What is Waste Stream Assessment (WSA)? Explain its importance in Solid Waste Management.	10	L2	CO1
	b.	Explain the Adverse health and Environmental impacts due to improper handling of Solid Waste.	10	L2	CO1
		OR			
Q.4	a.	What is E – Waste? Explain the types of E – Waste generated in your City.	10	L2	CO1
	b.	Explain the physical and chemical characteristics of Solid Waste.	10	L2	CO1
		Module – 3			
Q.5	a.	State the rule, that we need to keep in mind, while designing the collection route.	10	L1	CO2
	b.	Explain the types of containers and collection vehicles in Solid Waste Management.	10	L2	CO2
		OR			
Q.6	a.	Explain the need for monitoring sanitary landfills.	10	L2	CO2
	b.	What is Sanitary Landfill? Explain its process.	10	L2	CO2
		Module – 4			
Q.7	a.	Explain the purpose of source reduction in Solid Waste Management.	10	L2	CO2
	b.	What is Recycling? List the advantages of recycling in Solid Waste Management.	10	L1	CO2

		OR			
Q.8	**a.**	Explain the following : i) Size reduction ii) Air separation iii) Magnetic separation.	**10**	**L2**	**CO2**
	b.	What are the Recycling programme elements? Explain any two.	**10**	**L2**	**CO2**
		Module – 5			
Q.9	**a.**	What is Hazardous Waste? Explain the classification of Hazardous waste.	**10**	**L2**	**CO2**
	b.	Explain the physical and chemical treatment of Hazardous waste.	**10**	**L2**	**CO2**
		OR			
Q.10	**a.**	Explain the characteristics of Hazardous waste.	**10**	**L2**	**CO2**
	b.	Explain the following : i) F – list ii) K – list iii) P and U list.	**10**	**L2**	**CO2**

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