

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Sixth Semester***Chemical Engineering****CH3019 – Solid Waste Management***Regulations – 2021**Duration : 3 Hrs**Maximum: 100 Marks***PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	What are the Sources of solid waste?	L1	1	2
2.	Give suitable examples for combustible and non-combustible wastes.	L1	1	2
3.	What are the main components of integrated solid waste management?	L1	2	2
4.	Differentiate recycling and recovery.	L2	2	2
5.	Give some examples for the most common consumer products recycled.	L2	3	2
6.	Specify the merits of waste minimization.	L2	3	2
7.	Write the methods to dispose of solid contaminated wastes.	L1	4	2
8.	How to preventing or reducing waste generation?	L2	4	2
9.	What are the methods available for disposal of solid waste?	L1	5	2
10.	Write the causes of dumping of solid waste pollution.	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain about the classification of solid waste. Or	L2	1	16
	b i Explain about functional elements of solid waste management system.	L2	1	8
	ii What are the factors affecting the generation of solid waste?	L2	1	8
12.	a Discuss about the Indian scenario of solid waste management. Or	L2	2	16
	b Explain about source reduction in solid waste management.	L2	2	16
13.	a Discuss about collection routes and layout of routes in solid waste. Or	L2	3	16
	b i Explain briefly reusing and recycling in solid waste management.	L2	3	8
	ii Elaborate the factors that influence the waste collection system.	L2	3	8

14.	a	Discuss any case studies in solid waste management under Indian conditions.	L2	4	16
		Or			
	b i	Explain briefly in waste treatment equipment's in solid waste management.	L2	4	8
	ii	Explain about the transfer station in solid waste management system.	L2	4	8
15.	a	Explain in details the sanitary land fill area method in solid waste management.	L2	5	16
		Or			
	b	Explain the types of landfilling methods in solid waste management.	L2	5	16