

CBCS SCHEME

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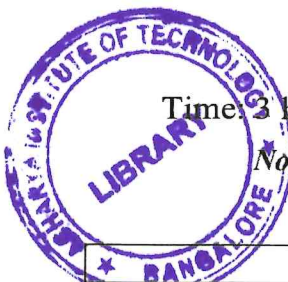
BCV515C

Fifth Semester B.E./B.Tech. Degree Examination, June / July 2026 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.	Write a detailed note on 3R's in Integrated solid waste management.	10	L2	CO1
	b.	Discuss the role of stake holders in solid waste management.	10	L2	CO1
OR					
Q.2	a.	Briefly explain the need of solid waste management, also explain the classification of solid waste.	10	L2	CO1
	b.	Write a detailed note on global perspective of solid waste management.	10	L2	CO1
Module – 2					
Q.3	a.	List and explain the physical and chemical properties of solid waste.	10	L2	CO1
	b.	Describe various factors affecting solid waste generation.	10	L2	CO1
OR					
Q.4	a.	Briefly explain various biological methods of waste characterization.	10	L2	CO1
	b.	Describe the methods to estimate the quantity of waste generated.	10	L2	CO1
Module – 3					
Q.5	a.	Write brief note on the following: i) Types of storage containers ii) Collection vehicles	10	L2	CO2
	b.	Define transfer station. Explain any two types of transfer station.	10	L2	CO2
OR					
Q.6	a.	List different on – site processing techniques used for solid waste and explain any two techniques in detail.	10	L2	CO3
	b.	Explain the parameters to be considered in designing a stationery container system.	10	L2	CO3
Module – 4					
Q.7	a.	What is composting? With aid of neat sketch explain Bangalore method of composting.	10	L2	CO4
	b.	Briefly explain the following : i) Biogas recovery ii) Leachate management	10	L2	CO4
OR					
Q.8	a.	With help of a neat sketch, explain working of a municipal incinerator.	10	L2	CO4
	b.	Explain the factors to be considered while designing a landfill.	10	L2	CO4
Module – 5					
Q.9	a.	Write a detailed note on classification of biomedical waste.	10	L2	CO5
	b.	Describe briefly about usage of IoT in storage, collection and treatment of solid waste.	10	L2	CO5
OR					
Q.10	a.	Write a brief note on treatment and disposal of construction and demolition waste.	10	L2	CO5
	b.	What is electronic waste? Briefly explain the treatment and disposal of e – waste.	10	L2	CO5
