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BEC755A

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
E-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.	Define E-Waste. Explain its sources, classification and characteristics with examples.	10	L2	CO1
	b.	Discuss global and Indian Scenario of E-waste generation of management.	10	L2	CO1
		OR			
Q.2	a.	Explain how the rapid growth of the electronics Industry in India and how it contributes to E-waste generation.	10	L2	CO2
	b.	Describe the challenges faced in defining and quantifying e-waste globally and nationally.	10	L2	CO1
		Module – 2			
Q.3	a.	Explain the basel convention and its importance in e-waste control.	10	L2	CO2
	b.	Explain the objective and impact of WEEE Directive.	10	L2	CO2
		OR			
Q.4	a.	Discuss the evolution of E-waste regulations in India from 2011 to 2016.	10	L2	CO2
	b.	Describe the regulatory compliance mechanisms for E-waste in India.	10	L2	CO2
		Module – 3			
Q.5	a.	Define EPR and explain its role in sustainable E-waste management.	10	L2	CO2
	b.	Explain in detail about E-waste value chain.	10	L3	CO2
		OR			
Q.6	a.	Describe in detail about E-waste collection system in India with examples.	10	L2	CO2
	b.	Discuss the role and importance of Producer Responsibility Organizations (PRO's).	10	L2	CO2
		Module – 4			
Q.7	a.	Explain key technique for sustainable E-Waste handling.	10	L2	CO3
	b.	Discuss hazards of improper E-Waste handling and suggest safety measures.	10	L2	CO3
		OR			
Q.8	a.	Describe the role of classification of characterization in e-waste handling.	10	L3	CO3
	b.	Explain in detail about worker safety measures during e-waste handling.	10	L2	CO3
		Module – 5			
Q.9	a.	Define ROHS directive. List restricted substances and their effects.	10	L2	CO3
	b.	Discuss ROHS compliance in India and compare it with global standards.	10	L2	CO3
		OR			
Q.10	a.	Explain the operations involved in E-Waste recycling.	10	L2	CO4
	b.	Describe major e-waste recycling technologies. Compare their merits and limitations.	10	L2	CO4

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