IV B.Tech - I Semester – Regular Examinations - DECEMBER 2023

E-WASTE MANAGEMENT (Common for ALL BRANCHES)

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

CO – Course Outcome

1 a	UNIT-I								
1 a			UNIT-I Marks						
	 Explain the basic principles of E-waste management and resource recovery potential of e-waste. 	L2	CO1	7 M					
b	* 	L2	CO1	7 M					
I	OR		L						
2 a	 Demonstrate the following: Define what is e-waste? Which e-waste is recyclable and not recyclable? 	L2	CO1	7 M					
	How do I get rid of my e-waste? Why is recycling e-waste important?								
b	 Explain the effects of pollutant (E-waste) on human health and surrounding environment. 	L2	CO1	7 M					

		UNIT-II			
3	a)	Explain the essential factors in global waste trade economy.	L2	CO2	7 M
	b)	Explain Import of hazardous e-waste in India and India's stand on liberalizing import rules.	L2	CO2	7 M
		OR			
4	a)	Compare E-waste economy in the organized and unorganized sectors.	L2	CO2	7 M
	b)	Describe the procedure of estimation and recycling of e-waste in metro cities of India.	L3	CO2	7 M
		UNIT-III			
5	a)	 Discuss the following: i) Who is a producer as per E-waste Management Rules 2016? ii) List any four electronic and electrical product covered under EPR obligation? iii) Who is required to get EPR registration for E-waste? iv) Is there any exemption for any entity from the requirement of EPR registration? 	L2	CO3	7 M
	b)	Explain:i) Import of e-waste permissionsii) Reduction of waste at source.	L2	CO3	7 M
	1	OR	1	<u>ı </u>	
6	a)	Explain the need for stringent health safeguards and environmental protection laws in India.	L2	CO3	7 M

	b)	Describe the salient features of the Rules	L2	CO3	7 M
		provided by the MoEF.			
		UNIT-IV			
7	a)	Interpret the initiatives taken by the	L3	CO4	7 M
		Government for Treatment, Storage and			
		Disposal Facilities.			
	b)	Discuss any four responsibilities of	L2	CO4	7 M
		dismantler and any three responsibilities of			
		recycler defined in E-waste (Management			
		and Handling) Rules, 2011.			
		OR		·	
8	a)	Explain the Procedure for grant of	L2	CO4	7 M
		authorization defined in - E-waste			
		(Management and Handling) Rules, 2011.			
	b)	Demonstrate any two responsibilities of	L3	CO4	7 M
		consumer, Dealer, Producer and one			
		responsibility of dismantler in E-waste			
		(Management) Rules, 2016.			
	r	UNIT-V			
9	a)	Illustrate any two objectives of the	L3	CO4	7 M
		Rotterdam Convention and the major			
		provisions made in this convention.			
	b)	Explain the Obligations of the Producer	L2	CO4	7 M
		under the WEEE.			
		OR			

10	a)	Differentiate the Basel Convention with the	L2	CO4	7 M
		Bamako Convention.			
	b)	Describe the Restrictions of Hazardous	L2	CO4	7 M
		Substances (RoHS) Directive.			