		Que	stion Paper Co	ode	11877		đ	A 1110	N 2023
		and the state of the	· · · · · · · · · · · · · · · · · · ·						
		B.E. / B.Tech I			NS, AF	PRIL	/ MA	Y 2023	
		Flectro		n Semester	m .	e i i e e e			
2	OCY	OE913 - WASTE	nics and Com	NT AND D	Engin	eering	TEC	INIOI	OCW
				tions 2020)	LUIU	LING	IEC	HNUL	JOGY
Du	ratio	n: 3 Hours		, , , , , , , , , , , , , , , , , , , ,			М	ax. Ma	rks: 100
			PART - A (10						145. 100
			Answer A	LL Question	ns				
									Marks, K-Level,CO
1.	Lis	t out the Biodegrada	ble and non-bi	odegradable	wastes				2,K1,CO1
2.		nat is called Hazardo		0					2,K1,CO1
3.	Co	mpare Recycle and I	Reuse.						2,K2,CO2
4.	WI	nat is meant by 3 R'S	5?						2,K1,CO2
5.	Define stationary container system.							2,K1,CO3	
6.	What is At-site and Off-site?							2,K1,CO3	
7.	Me	ntion the parameters	of composting						2,K1,CO4
8.	Write the merits and demerits of Incineration.								2,K1,CO4
9.	What is the purpose of using landfill for waste disposal?							2,K1,CO5	
10.	Wr	ite the composition of	of landfill gas.						2,K1,CO5
			PART - B (5 ×						
			Answer Al	L Question	S				
11.	a)	Explain the sources	s and types of s	olid wastes.					13,K2,CO1
			O	R					
	b)	What is integrated Role of NGO's in t			awaren	ness?	Expla	in the	13,K1,CO1
12.	a)	"Segregation of management" – Ex		nelp of a cas			v to	waste	13,K2,CO2
	b)	Write about Storag in MSWM	e containers an	d list out th	e Storag	ge com	ntaine	rs size	13,K1,CO2
13.	a)	Briefly explain the	analysis metho Ol		waste co	ollectio	on sys	stem.	13,K3,CO3

- b) What are the objectives of street cleaning? Explain the tools used for 13,K2,CO3 street sweeping in detail.
- With the help of sketches, elaborate the types, working and principle of 13,K1,CO4 14. a) composting methods.

OR

- Write a detail note on magnetic separation and eddy current separation 13,K2,CO4 b) of solid waste with help of sketches.
- Explain the salient features of landfill bioreactor with suitable sketch. 15. a) 13,K2,CO5 OR
 - What is leachate? Mention the various types of treatments of leachate b) 13,K2,CO5 and disposal.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) (i) Explain the four techniques of WM. 8,K2,CO2 (ii) What are the types of vehicle routing methods? Explain in any two 7,K2,CO3 detail. OR

b)	where the source is the source	8,K2,CO2
	briefly.	
	(ii) Explain the role, usefulness and types of transfer stations.	7,K2,CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

2

11877