CERTIFICATE IN SOLID WASTE TREATMENT TECHNIQUES (CSWATT)

Term-End Examination June, 2025

BWA-003 : SOLID WASTE PROCESSING AND TREATMENT TECHNIQUES

Time: 3 Hours Maximum Marks: 70

Note: (i) Attempt any seven questions.

- (ii) All questions carry equal marks.
- (a) Explain the purpose of processing in waste management.
 - (b) Describe magnetic separation methodwith the help of a neat sketch.

2.	Exp	olain	the	major	element	s of	recycling	
	pro	gram.					10	
3.	(a)	Expl	lain	the	differe	ıce	between	
		compaction and size reduction.						
	(b)	Discuss the various factors affecting the						
		composting process. 5						
4.	Explain the working of a family stage biogas							
	plants with the help of a neat sketch. Also							
	discuss its advantage and limitations.							
5.	(a)	Expl	lain	the	differe	nce	between	
		Mec	hanio	cal l	Biological	r	Γreatmen	
		(MB	T),	compo	sting a	nd	anaerobi	
		dige	stion	•			(
	(b)	How	is tl	ne biolo	ogical treatment of MBT			
		carr	ied o	ut?			2	
6.	Des	cribe	th	e inci	neration	pro	ocess for	
	power generation with the help of a near							
	sketch.							
7.	(a)	Expl	lain	the	therma	ιl	treatmen	
		techniques in waste management.						
	(b)	What is gasifier? Explain various types						
	. ,		asifer	-	*			

- 8. Discuss in detail various issues in thermal treatment process.
- 9. Write short notes on any *two* of the following: 5+5
 - (a) Flocculation
 - (b) Chemical treatment
 - (c) Hazardous waste and their management
 - (d) e-Wastes

