CERTIFICATE IN SOLID WASTE TREATMENT TECHNIQUES (CSWATT)

Term-End Examination December, 2024

BWA-004 : DISPOSAL OF WASTES				
Ti	me:	3 Hours Maximum Marks : 7	0	
Note: (i) Attempt any five questions. (ii) All questions carry equal marks.				
		(ii) Thi questions carry equal marks.		
1.	(a)	Discuss the functions and characteristics of various layers in a landfill.	of 7	
	(b)	-	of 7	
2.	(a)	Discuss the important factors that must be considered in the design of landfills.	е 7	
	(b)		е 7	

3.	(a)	Describe the methods of near surface gas
		monitoring. 7
	(b)	Explain the mechanism of leachate
		generation. 7
4.	(a)	Discuss the methods of treatment of
		landfill gas. 7
	(b)	Describe the various properites of
		leachate. 7
5.	(a)	Describe the safe closure plan for a
		disposal site. 7
	(b)	Explain the operations performed after the
		closure of a landfill site.
6.	(a)	Discuss the advantages and disadvantages
		of methods of identification of
		environmental impacts. 7
	(b)	Describe the important stages of EIA. 7
7.	(a)	Discuss the various types of EIA in brief. 7
	(b)	What is 'integrated solid waste
		management system hierarchy'? Explain
		its various components.

8. Write short notes on any *four* of the following:

$$4 \times 3\frac{1}{2} = 14$$

- (a) Objectives of EIA
- (b) Landfill capping
- (c) Gas well
- (d) Effects of landfilling on human health
- (e) Need of ICT in solid waste management
- (f) Applications of digital technologies in waste management