CERTIFICATE IN SOLID WASTE TREATMENT TECHNIQUES

(CSWATT)

Term-End Examination December, 2024

BWA-003 : SOLID WASTES PROCESSING AND TREATMENT TECHNIQUES

Time: 3 Hours Maximum Marks: 70

Note: (i) Answer any **seven** questions.

- (ii) Each question carries equal marks.
- (iii) Use of calculator is permitted.
- 1. What is meant by source reduction of solid wastes? Describe its various purposes. Also, briefly discuss various actions that can be taken at the local level to encourage source reduction.

2.	Describe various factors affecting the sele	ction
	of air separation equipment. Also discuss a	ıbout
	open inlet type of air classifier.	10

- 3. Describe in detail the significance of 'Recycling' of wastes.
- 4. Describe in detail various factors affecting the composting process.
- What are different methods categorized as invessel composting methods? Describe any one in detail.
- What is meant by anaerobic digestion of solid wastes? Describe in detail the single stage process.
- 7. What are the different types of biogas plants?

 Describe any *one* in detail.
- 8. What is meant by Mechanical Biological Treatment (MBT)? Describe various benefits of MBT over other conventional methods of waste disposal.

- 9. What is meant by Incineration? How do incinerators affect the environment? Describe any *one* method used to control the environmental effect of incinerator.
- 10. What are the different types of mine wastes?Briefly discuss about various methods of mine waste management.