

**CERTIFICATE IN SOLID WASTES  
TREATMENT TECHNIQUES (CSWATT)**

**Term-End Examination**

**December, 2021**

**BWA-003 : SOLID WASTES PROCESSING AND  
TREATMENT TECHNIQUES**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** *Attempt any **seven** questions. All questions carry equal marks.*

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1. What is the purpose of component separation ?  
Explain air separation technique with a neat sketch. 10
  
2. Explain the significance of recycling in solid waste management. 10
  
3. Enlist any five size reduction equipments and mention their mode of action and application. 10
  
4. Discuss the various factors which affect composting process. 10

5. Explain the biochemical process of Anaerobic Digestion (AD). 10
6. Discuss the benefits of Mechanical Biological Treatment (MBT) over bioreactor landfill and solid waste incineration. 10
7. Explain the waste incineration process with the help of a schematic diagram. 10
8. Describe any one method of production of syngas with the help of a neat sketch. 10
9. Discuss the various issues related to thermal treatment process of solid waste. 10
10. Write short notes on any **two** of the following : 5+5=10
- (a) Electronic Waste Treatment
  - (b) Carbon Capture and Storage
  - (c) Rehabilitation Management
  - (d) Microbial Leaching Test
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