

**CERTIFICATE IN SOLID WASTES
TREATMENT TECHNIQUES**

(CSWATT)

Term-End Examination

December, 2023

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

Time : 3 Hours

Maximum Marks : 70

Note : (i) *Attempt any five questions.*

(ii) *All questions carry equal marks.*

1. Discuss the purposes of processing of wastes in detail. 10
2. Explain the significance of recycling for the society. 10
3. (a) Enlist the various applications of de-watering as a mode of waste reduction. How is it achieved ? 5
- (b) Enlist any *five* size reduction equipments. 5

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4. What is Window composting process ? Describe it with neat sketch. 10
5. Which materials can be used as feedstock for anaerobic digestion ? What are the processes involved in anaerobic digestion ? 10
6. Explain the waste incineration process with the help of a schematic diagram. How does incinerator affect the environment ? 10
7. What is gasifier ? Describe the processes of gasification. 10
8. Write the applications of pyrolysis. Discuss the advantages and disadvantages of pyrolysis. 10
9. Enlist various types of mining wastes. What are the advantages and disadvantages of mining waste ? 10
10. Identify various wastes from power plant. Explain. 10