

No. of Printed Pages : 3

BWA-003

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

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 70

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

(ii) Each question carries equal marks.

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1. (a) Explain the Integrated Solid Waste Management (ISWM) approach of waste management. 7
- (b) Discuss the significance of recycling of waste. 7

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2. (a) Explain in detail the storage and collection of recyclables. 7
- (b) Explain the various methods used for drying of wastes. 7
3. Explain the process of composting in detail. Also discuss its advantages and drawbacks. 14
4. (a) Explain various factors affecting Anaerobic digestion process. 10
- (b) How is biogas utilized ? 4
5. (a) Describe the methods of Exit Stream treatment of Mechanical Biological Treatment (MBT). 7
- (b) How is NO_x emission controlled ? 7
6. (a) What is gas temperature reduction ? Explain its significance in incineration process. 7
- (b) Explain the gasification process of thermal treatment. 7

[3]

7. Write short notes on any *four* of the following : 4×3.5=14

- (a) Material Recovery Facilities
- (b) RDF
- (c) U-V based hydrolysis process
- (d) Steam sterilization
- (e) Radioactive waste management
- (f) Wastes from power sectors

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