

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

Term-End Examination

December, 2022

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

Time : 3 hours

Maximum Marks : 70

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

1. (a) What is the purpose of processing of wastes ? *7+7=14*
(b) Describe the process of resource recovery through material recycling in Indian context.

2. (a) What are the various factors that decide the selection of size reduction equipment ? *7+7=14*
(b) Discuss the drawbacks of composting.

3. Explain the effects of various process parameters in Anaerobic digestion. *14*

4. (a) Describe in brief the various operations of Mechanical Biological Treatment (MBT). $7+7=14$
- (b) Describe the gasification process in detail.
5. (a) Explain steam sterilization process in brief. $7+7=14$
- (b) Discuss the relative advantages and disadvantages of mining wastes.
6. (a) Discuss the generation and management of waste from oil-fired power plants. $7+7=14$
- (b) Explain the process of chemical treatment of wastes in brief.
7. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Incineration of Wastes
- (b) Radioactive Waste Management
- (c) Bio-Oil
- (d) Waste to Energy
- (e) Entrained Flow
- (f) Acetogenesis
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