

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

**Term-End Examination
June, 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. (a) Discuss the advantages and disadvantages of dry and wet fermentation.
- (b) Describe the working of burn barrel incinerator. 7+7=14
2. (a) Explain in detail the working of counter current gasifier.
- (b) Describe the stages of gas and residue treatment in brief. 7+7=14
3. Explain physical treatment of wastes in detail.

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4. (a) Describe the working and waste generation of coal based power plant.
- (b) Explain the Pyrolysis process. $7+7=14$
5. (a) Explain the significance of Mechanical Biological Treatment (MBT).
- (b) Discuss the recycling process of any *two* types of wastes. $7+7=14$
- 6 (a) Discuss the advantages and limitations of composting.
- (b) Explain any *one* method of methane production from wastes. $7+7=14$
7. Write short notes on any *four* of the following :
- $3.5 \times 4 = 14$
- (a) Biomedical waste
- (b) Advance thermal treatment
- (c) Flue gas treatment
- (d) Handling and storage of Ash
- (e) Processing of wastes
- (f) Aerobic Mechanical Biological Treatment (MBT)

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