

CSWATT/Jan/2026

ASSIGNMENTBOOKLET

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

Lastdateforsubmission

31thMarch



**SchoolofEngineeringandTechnology
IndiraGandhiNationalOpenUniversity
MaidanGarhi,NewDelhi-110068**

Dear Learners,

As you are aware, a weightage of 30% has been earmarked for continuous evaluation which would consist of **Tutor Marked Assignment** for each course, BWA-001, BWA-002, BWA-003 and BWA-004 of this program. Learners are required to score minimum 40 marks out of 100 marks in assignment of each course. Submit assignment response to **Programme Coordinator (CSWATT), Block C, School of Engineering & Technology, Indira Gandhi National Open University, Maidan Garhi, New Delhi-110068**

A feedback form is enclosed with this assignment. Please complete it after solving this assignment and send it to the Course Coordinator (CSWATT) on the address specified on the feedback form.

INSTRUCTIONS FOR SUBMITTING ASSIGNMENTS

Before attempting the assignment, please read the following instructions carefully:

1) On top of the first page of TMA answer sheet, please write the details exactly in the following format:

	Enrolment no:
	Name:
	Address:
Course code:	
Course title:	
Assignment no.:	
Study Centre:	Date:

Please follow the above format to facilitate evaluation and to avoid delay.

- 2) Use full size paper for writing your answers.
- 3) Leave 4cm margin on the left, top and bottom of your answer sheet.
- 4) Answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved, if any. Recheck your work before submitting it.

Answersheets received after the due dates shall not be accepted. We strongly feel that learners should retain a copy of assignment response to avoid any unforeseen situation and append, if possible.

WE WISH GOOD LUCK!

Course Code: BWA-003
Title of the Course: Solid Wastes Processing and Treatment Techniques
Assignment Code: BWA-003/TMA/Jan/2026
Maximum Marks: 100

Note: All questions are compulsory. All questions carry equal marks.

1. List the criteria to be considered in the evaluation of various options before adopting a source reduction policy.
2. Given that 100 ton/hr of solid waste is applied to a rotary screen for the removal of glass prior to shredding, determine the recovery efficiency and effectiveness of the screen, based on the following experimental data:
The percentage of glass in solid waste = 8%
Total weight of material in under flow = 10 ton/h
Weight of glass in screen underflow = 7.2 ton/h
3. List the factors that you will consider while planning a recycling program.
4. State the 'End uses' of recycled plastic.
5. What are the main products of Incineration Process? Describe Dioxins and Furans.
6. What is Flue Gas? Briefly describe the process for Flue gas cleaning.
7. What is the difference between osmosis and reverse osmosis?
8. How does the process of neutralization help in the treatment of hazardous waste?
9. Explain the types of studies in mining waste characterization.
10. Enlist various types of mining wastes. What are the advantages and disadvantages of mining waste?