

Course Code: BWA-003
Title of the Course: Solid Wastes Processing and Treatment Techniques
Assignment Code: BWA-003/TMA/July/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?