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CERTIFICATE IN SOLID WASTE TREATMENT TECHNIQUES (CSWATT)

Term-End Examination December, 2023

BWA-002 : SOLID WASTES COLLECTION AND TRANSPORTATION

Time: 3 Hours Maximum Marks: 70

Note: (i) Attempt any **seven** questions only.

(ii) All questions carry equal marks.

- Discuss, in detail the categorization of 'on the street collection' of solid waste.
- What are the requirements of a good container for waste collection? Also, discuss the characteristics of materials used for these containers.
- What does the term 'Compaction Vehicle' stand for ? Describe the rear-loading compaction plate compactors vehicle in detail.

4. Compare among manual, semi-automated, automated and bin based method of waste collections on the basis of cost, health safety, efficiency and environmental appropriateness.

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- 5. Discuss, in detail about the primary and secondary collection of solid wastes.
- 6. Explain about various components of investment costs for waste management plan.

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- 7. Explain the basic 8-step planning model for solid waste transportation.
- 8. What is tipping fees? Describe the Income and Expenditure Approach (IEA) for calculating the tipping fees.
- 9. Write short notes on the following: 5 each
 - (a) Two wheeled tractors (power tillers) waste collection vehicle
 - (b) Three wheeler auto-rickshaw