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CERTIFICATE IN SOLID WASTES TREATMENT TECHNIQUES (CSWATT)

Term-End Examination June, 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.

- 1. Name all the components of a waste collection system. Describe any *two* of them in detail. 10
- 2. Discuss in detail 'Community waste storage'. 10
- 3. What purpose is served by sweeping machines, hand tools and litter bins? Explain in detail. 10
- 4. What are non-compactions vehicles in collection of solid waste? Elaborate the 'high-sided opentop vehicle' and the 'crane tipper system'.

- 5. Describe the various information that should be collected and updated regularly for the solid waste collection planning.
- 6. How does frequency of waste collection relate to the cost, health and safety and effectiveness of waste management? Elaborate.
- 7. What is the utility of Clarke-Wright algorithm of vehicle routing for waste collection? Discuss the salient features of the algorithm.
- 8. Describe the *three* major costs of waste management along with the other types of cost incurred.
- 9. Explain, in detail the various types of revenues incurred from waste management.