

**CERTIFICATE IN SOLID WASTE
TREATMENT TECHNIQUES**

(CSWATT)

Term-End Examination

June, 2024

BWA-004 : DISPOSAL OF WASTES

Time : 3 Hours

Maximum Marks : 70

Note : *Attempt any **five** questions. All questions carry equal marks.*

1. (a) Discuss various stages of consolidation of landfilling. 7
 - (b) Describe various methods of landfilling based on construction of sanitary landfills. 7

2. (a) Discuss various factors which govern the site selection for a landfill. 7
 - (b) What are the primary purposes of the final landfill cover ? what performance criteria may enable the landfill cover to meet these purposes ? 7

3. (a) Discuss the factors which govern the landfill gas migration. 7
- (b) Describe the various phases of bacterial decomposition of landfill waste. 7
4. (a) What is leachate ? Describe the various sources of leachate. 7
- (b) Describe the design features of a leachate collection system. 7
5. (a) What do you mean by landfill closure ? Explain the objectives of safe closure of a landfill. 7
- (b) Describe the indicators of the stability of disposal site. 7
6. (a) Discuss the key issues in project planning and management. 7
- (b) What are the various components of the environment of an area ? Explain any *two* in detail. 7
7. (a) Discuss the importance of environmental impacts. Explain criterion to workout the importance of the identified impacts. 7
- (b) Discuss the benefits of conducting EIA. 7

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8. Write short notes on any *four* of the following :

$$4 \times 3\frac{1}{2} = 14$$

- (a) Inhibitors of the digital evolution of waste management
- (b) Workplace injury management
- (c) Health impacts of waste exposure
- (d) Decision-making in EIA
- (e) On-site leachate treatment
- (f) Post-closure landuse plan