

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

Term-End Examination

December, 2022

BWA-004 : DISPOSAL OF WASTES

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **ten** questions. All questions carry equal marks. Calculator is allowed.*

1. What is microbial degradation of refuse in landfills ? Explain briefly. 7
2. Write the difference between Sanitary landfill and Landfill. 7
3. Discuss commonly used biological processes for leachate treatment. 7
4. Discuss the conditions governing landfill gas migration. 7
5. Explain the Passive and Active landfill gas collection system. 7

- 6.** Write the environmental impacts and risks due to landfill leachate. 7
- 7.** Explain the types of landfill based on sources of wastes. 7
- 8.** Discuss the stages in settling processes in landfill. 7
- 9.** Explain, why storm water management is essential after landfilling. 7
- 10.** Briefly explain key stages of Environmental Impact Assessment (EIL). 7
- 11.** What are the main requirements for safe handling and storage of waste as mentioned in the Environment Protection Act (EPA) ? 7
- 12.** What are the different phases in occupational health and safety management systems ? Explain briefly. 7
- 13.** What are the various threats to solid wastes workers ? Discuss briefly. 7
- 14.** List and discuss various factors that aid waste management digitalization. 7
- 15.** Explain the need of adopting GIS in solid waste management. 7
