

**B.Tech. CIVIL ENGINEERING (BTCLEVI)****Term-End Examination****BICEE-001 : SOLID AND HAZARDOUS WASTE  
MANAGEMENT****Time : Three Hours]****[Maximum marks : 70**

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

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1. (a) Define Municipal Solid Wastes (MSW). What is the composition of typical MSW in a Metropolitan city ? [6]
- (b) Write a detailed note on Infections Wastes in Municipal Solid Wastes (MSW). [8]
2. Explain in detail the four factors that should be considered in on-site storage of solid waste. [14]
3. (a) Explain in detail, the various biological and chemical conversion techniques of solid waste processing. [7]
- (b) What is a Landfill ? Explain the different types of landfill. [7]

4. (a) Identify the sources of Hazardous Waste. [4]
- (b) Discuss the areas where industrial wastes can be reused. [10]
5. (a) What is Recycling ? Explain its significance on management of waste. [7]
- (b) Describe the various thermal conversion methods for MSW. [7]
6. (a) Discuss the factors to be considered for composting of Solid Wastes. [7]
- (b) What are various legal aspects of Municipal solid waste collection. [7]
7. Write short notes on the following : [4×3½=14]
- (a) Site Remediation
- (b) Leachate collection
- (c) Disposal of Solid Waste into Water Bodies
- (d) Transportation of Solid Waste

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