

**B.TECH. CIVIL ENGINEERING
(BTCLEVI)**

Term-End Examination

December, 2013

**BICEE-001 : SOLID AND HAZARDOUS WASTE
MANAGEMENT**

Time : 3 hours

Maximum Marks : 70

Note : Answer any five questions.

All questions carry equal marks.

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1. (a) What are the sources of municipal solid waste in India ? Explain its classifications. 7
(b) Discuss the composition of typical municipal solid waste. 7
 2. (a) What is Recycling ? Explain its significance on management. 7
(b) What is sanitary land filling ? Explain its component with a neat sketch. 7
 3. (a) Write a detailed note on generation, collection, segregation and disposal of MSW. 7
(b) Describe the various thermal conversion methods for MSW. 7
 4. (a) Explain the various sources of hazardous waste in domestic and industrial waste. 7
(b) Discuss the factors to be considered for composting of solid waste. 7

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| 5. | (a) | Compare between disposal of solid waste on land and water bodies. | 7 |
| | (b) | Differentiate between biodegradable and non-biodegradable hazardous wastes. Discuss its treatment methods. | 7 |
| 6. | (a) | Discuss the process and importance of transportation or conveyance of solid waste from source to disposal site. | 7 |
| | (b) | What are the various legal aspects of municipal solid waste collection ? Explain. | 7 |
| 7. | (a) | Compare between the treatment of municipality and industrial solid waste. | 7 |
| | (b) | Describe the thermal methods for treatment and disposal of hazardous waste. | 7 |
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