

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2016

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

Time : 3 hours

Maximum Marks : 70

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

1. (a) Discuss the on-site handling methods of solid wastes in detail. 7
- (b) What are the sources of municipal solid wastes (MSW) in India ? Explain the classification of MSW. 7
2. (a) What are the sources and types of hazardous and infectious wastes in municipal solid wastes ? 7
- (b) What are the techniques involved in resource recovery ? Explain in detail. 7
3. (a) Differentiate between municipal solid wastes and industrial solid wastes. 7
- (b) Discuss the process of transportation of solid wastes from its source to disposal sites. 7

4. (a) What are the sources of industrial hazardous wastes? 7
- (b) Describe the thermal methods for the treatment and disposal of industrial hazardous wastes. 7
5. Discuss the solid waste disposal methods in detail with advantages and disadvantages. 14
6. Write notes on the following : $2 \times 7 = 14$
- (a) Stabilization and Solidification of Hazardous Wastes
- (b) Leachate Collection and Treatment
7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Closure of Landfills
- (b) Storage of Solid Wastes
- (c) Composition of typical MSW in Metropolitan Cities
- (d) Incineration of MSW
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