

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

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December, 2017

**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) Describe the various methods of transportation of solid waste. 7
- (b) What are the sources and types of infectious waste ? 7
2. (a) What are the sources of hazardous waste in houses and industries ? 7
- (b) Elaborate on the legal aspects of collection of municipal solid waste. 7
3. (a) Describe the various methods of storage of solid waste. 7
- (b) Classify hazardous waste based on quality. 7

4. (a) What methods are used to detoxify industrial solid waste? 7
- (b) How is the treatment of hazardous waste carried out? 7
5. (a) Describe the methods of disposal of hazardous waste in detail. 7
- (b) Discuss the physical and chemical properties of municipal solid waste. 7
6. (a) Describe the recycling methodology of municipal solid waste. 7
- (b) Elaborate on the thermal conversion of solid waste for disposal of the same. 7
7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Site Remediation
- (b) Toxic Solid Waste
- (c) Composting Gas Generation
- (d) Chemical Conversion of Solid Waste
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