

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

June, 2015

00676

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

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. All questions carry equal marks.

1. How can solid waste affect human beings from an ecological perspective ? Write in detail. 10

2. (a) Classify the solid waste w.r.t. its characteristics. 5

(b) Describe the factors to be considered for the purpose of determining the generation rate. Discuss the methods used to determine the generation rate. 5

3. Explain the four factors that should be considered in on-site storage of solid waste. 10

4. (a) Explain the four types of collection services. 5

(b) What are the methods of loading the solid waste on the vehicle ? 5

5. What is resource recovery ? Discuss the products that can be recycled. Identify the obstacles to resource recovery. 10
 6. Discuss the solid waste disposal methods in brief with their relative advantages and disadvantages. 10
 7. List the important hazardous chemicals. Discuss the four basic control measures for the movement of hazardous waste from a source to disposal site. 10
 8. Discuss in detail the treatment technologies to dispose off health care establishment waste. 10
 9. (a) List out the household hazardous wastes. 4
(b) Name the industrial solid wastes with their source/origin. 6
 10. Discuss in detail any *four* waste management approaches. 10
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