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Code No: CE1535

GEC-R14

III B. Tech. II Semester Regular Examinations, April 2017

**SOLID WASTE MANAGEMENT**

(Open Elective - II)

Time: 3 Hours

Max. Marks: 60

**Note:** All questions from **PART - A** are to be answered at one place.

Answer any **FOUR** questions from **PART - B**. All questions carry equal Marks.

**PART-A**

**6 × 2 = 12M**

1. What is garbage and where should its storage be located?
2. Define waste generation and give examples.
3. Classify solid waste transfer stations.
4. What is incineration? What are its advantages?
5. What is land farming? Explain its necessity.
6. Explain 5 R's of solid waste management.

**PART-B**

**4 × 12 = 48M**

1. a) Explain the differences between bio-degradable and non-bio degradable solid wastes. (5M)  
b) Explain the physical, chemical and biological characteristics of solid waste. (7M)
2. a) Describe Commercial and Industrial handling of solid wastes. (8M)  
b) Explain about collection methods and services of solid wastes. (4M)
3. a) Describe various methods of waste material segregation. (9M)  
b) Explain various types of transportation vehicles of solid wastes. (3M)
4. a) Explain any two methods of composting for biodegradable waste. (8M)  
b) Explain advantages and limitations of composting. (4M)
5. a) Describe the operation of landfills. (7M)  
b) Explain about deep well injection for disposal of solid wastes. (5M)
6. a) Describe in detail about post-consumer solid waste and post-industrial solid waste. (8M)  
b) Explain the necessity of waste exchange in an Industry. (4M)

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