B.TECH. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination December, 2012

BICEE-001 : SOLID AND HAZARDOUS WASTE MANAGEMENT

Time: 3 hours		ours Maximum Marks	Maximum Marks : 70	
Note		nswer any five questions . Use of scientific calcus permitted.	lator	
1.	(a)	What is the composition of typical MSW in an Indian city ?	3	
	(b)	What are the various types of solid wastes?	3	
	(c)	Write a detailed note on infectious waste in municipal solid wastes ?	8	
2.	(a)	Write a detailed note on collection and Handling of solid wastes?	7	
	(b)	Explain in detail about the various biological methods for the treatment of solid wastes?	7	
3.	(a)	Explain in detail the various thermal conversion techniques for municipal solid waste treatment.	7	
	(b)	Write a detailed note on materials separation and recycling of material in municipal solid wastes.	7	

- 4. What is an engineered land fill? With the 7 (a) aid of a neat sketch, explain the working of different components of a secured land fill. Differentiate Municipal solid waste, (b) 7 Industrial solid waste and Bio-medical wastes? 5. (a) List out the various toxic solid wastes in 7 Industrial wastes? Explain the various methods of detoxification briefly. (b) Explain the various treatments and disposal 7 techniques of Industrial solid waste? 6. (a) What is Hazardous waste? Explain the 7 physico-chemical treatment and disposal methods of it? (b) What are the sources of Hazardous waste? 7 What are the various classification of it?
- 7. Write short notes on:

2x7=14

- (a) Stabilization and solidification of Hazardous waste.
- (b) Legal aspects of municipal solid waste collection.