B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00513

June, 2018

BICEE-001 : SOLID AND HAZARDOUS WASTE MANAGEMENT

Tir	ne : 3	hours Maximum Marks:	Maximum Marks : 70	
Note: Answer any five questions. All questions carry equal marks.				
1.	(a)	What are the sources of hazardous waste generated in houses and industries?	7	
	(b)	Elaborate the incineration procedures for disposal of solid waste.	7	
2.	(a)	Explain the types of solid waste collection routes and their layouts.	7	
	(b)	Describe the landfilling process for solid waste management.	7	
3.	(a)	Describe the various methods of storage of solid waste.	7	
	(b)	Explain the environmental issues related to the disposal of industrial solid waste in water bodies.	7	
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4.	(a)	Explain how groundwater monitoring during operations and after closure of a landfill site is conducted.
	(b)	How is the treatment of hazardous waste carried out?
5.	(a)	Explain air and steam stripping processes for hazardous waste management. 7
	(b)	Explain the procedure of biological conversion of solid waste. 7
6.	(a)	Describe the recycling methodology of municipal solid waste. 7
	(b)	Explain the procedure to control landfill leachates. 7
7.	Write	e short notes on the following: $4 \times 3 \frac{1}{2} = 14$
	(a)	Composition of municipal solid waste
	(b)	Toxic solid waste
	(c)	Windrow composting
	(d)	Chemical conversion of solid waste