00461

No. of Printed Pages : 2

BICEE-001

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

December, 2015

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)	Define Municipal Solid Wastes (MSW). What is the composition of typical MSW in a metropolitan city ?	6
(b)	Write a detailed note on infectious wastes in Municipal Solid Wastes (MSW).	8
2. (a)	Write a detailed note on generation, collection, segregation and disposal of MSW.	7
(b)	Explain in detail about the various biological methods for the treatment of solid wastes.	7
3. (a)	What is Recycling ? Explain its significance on management.	7
(b)	Describe the various thermal conversion methods for MSW.	7
BICEE-00	1 1 P.T	.0.

4.	(a)	What is an engineered landfill ? With the aid of a neat sketch, explain the working of different components of an engineered
		landfill. 7
	(b)	Explain the various sources of hazardous wastes in domestic and industrial wastes. 7
5.	(a)	Explain the various treatment techniques and disposal methods of industrial solid wastes. 7
	(b)	Discuss the factors to be considered for composting of solid wastes. 7
6.	(a)	What is Hazardous waste ? How is it classified based on its quality ? 7
	(b)	Explain the various land disposal techniques of Hazardous wastes. 7
7.	(a)	What are the various legal aspects of Municipal solid waste collection ? 7
	(b)	Compare between disposal of solid wastes on land and in water bodies. 7
8.	Write	e short notes on the following : $4 \times 3\frac{1}{2} = 14$
	(a)	Site remediation
	(b)	Leachate collection
	(c)	Closure of landfill sites
	. ,	
	(d)	Factors affecting the generation rate of solid wastes

•

BICEE-001

1,000

2