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•		Roll No. :	Total Printed Pages : 2
E			5E3158-Q
1644			ain / Back) Examination, December - 2011
Tim	ne : 3	Hours]	[Maximum Marks : 80 [Min. Passing Marks : 24
Ins	struc	tions to Candido	ites:
	un be be mu	it. All questions ca shown wherever ne assumed and stated st be stated clearl	estions selecting one question from each rry equal marks. Schematic diagrams must cessary. Any data you feel missing suitably clearly. Units of quantities used/calculated y. naterial is permitted during examination.
	. 1	•	2 NIII
٠	<u>, r</u>	AIT.	2. <u>NIL</u>
			UNIT - I
1	(a)	Describe the pro	olems associated with solid waste disposal.
	(b)	Discuss various	8 characteristics of municipal solid waste. 8
			OR
1	(a)	Draw the step by and explain the	
	(b)	Describe 4-R pri	8 aciple for solid waste management. 8
			UNIT - II
2	(a)	What are the ill	effects of open dumping of solid waste?
	(b)	What are the metwaste?	hods of onsite storage and handling of solid

OR

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[Contd...

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2	(a)	What are the various criteria for locating community bins?		
	(b)	Describe the term "sorting of solid waste".		
		UNIT - III		
3	(a)	solid waste?		
	(b)	Describe various types of collection system of solid waste. 8		
		OR		
3	(a)	What are the various points to be kept in mind while choosing the collection route of vehicle to pick up solid waste?		
AT.	(b)	What are the various facilities that must be available at transfer station?		
		8		
		UNIT - IV		
4	(a)	Describe the various factors affecting composting.		
	(b)	Describe the various guidelines for selection of a landfill site.		
		OR		
4	(a)	What are the various phases of operation of landfill? Draw the neat sketch of a landfill.		
	(b)	Why incineration is considered better than open burning?		
		UNIT - V		
5	(a)	Describe the nature of solid waste generated by different industries.		
	4.3			
	(b)	Suggest various methods for reducing the solid waste generation in the industries.		
		OR		
5	Wri	te short notes on any four of the following "		
	(i)	Reuse of material		
	(ii)	Recovery of energy and material		
		Energy generation from waste		
	(iv)			
	(v)	Vermicomposting		
	(vi)	Sanitary landfill. 4×4=16		
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