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	Roll No.	Total No of Pages: 3	
<b>89</b>			
ĕ	B. Tech. V Sem. (Main / Back) Exam., Dec. 2014		
5E5068  B. Tech. V Sem. (Main / Back) Exam., Dec. 2014  Civil Engineering  5CE6.3A Solid Waste Management			
n)	SCEO.SA Bond Wast	e management	
ime: 3 Hours		Maximum Marks: 80	
		Min. Passing Marks: 24	
structi	ons to Candidates:		
Uni	a you feel missing suitably be assumed an its of quantities used/calculated must be so of following supporting material is perm	tated clearly.	
	entioned in form No. 205)	шей интя ехаттанон.	
		<u>IL</u>	
	<u>UNIT – I</u>		
. 1 (a)	Define solid waste. What are the impacts o	f solid waste on environment? [8	
(b)	Describe the classification of solid waste a	as hazardous and non-hazardous waste	
	Describe garbage, rubbish, trash, litter and	refuse. [8	
	<u>OR</u>		
(a)	Describe the generation of solid waste. W	hat are the factors affecting generatio	

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(b) Describe in detail the characteristics of solid waste.

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[8]

[8]

of solid waste?

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# <u>UNIT - II</u>

Q. 2 (a)	What are the problem of public health and aesthetics associated with	solid waste
	management? Describe the various onsite handling methods.	[8]

(b) Sketch and describe the various types of dustbins. What are the associated problems with dustbins in our country? [8]

### <u>OR</u>

- (a) Describe the various onsite processing methods of solid waste. [8]
- (b) Describe community containers. What are the considerations to be made in deciding the location of containers? [8]

## <u>UNIT – III</u>

- Q. 3 (a) Describe various collection systems. What are the advantages and disadvantages of door-to-door collection system? rtuonline.com [8]
  - (b) Explain the method of finding the labour requirement for collection and transportof solid waste. Suggest some suitable method for a metro city.[8]

### <u>OR</u>

- (a) Sketch and describe the equipment used for collection and transport of solid waste. [8]
- (b) How do we plan for the collection routes? Describe any scientific method for effective and economical collection of solid waste. [8]

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(b)

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[8]

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## UNIT - IV

Q. 4 (a)	What is the requirement for processing of solid waste? Describe various m	
	of processing.	[8]

Sketch and describe the sanitary landfill. What are the problems associated with leachate? [8]

OR Q. 4 (a) Describe the processes of composting and incineration as disposal methods of solid waste. [8]

Describe various types of bioremediation.

UNIT - V

#### Q. 5 (a) Describe the various methods of energy recovery from solid waste.

Describe the reuse of solid waste in other industry. What are the problems (b) associated with re-use? [8]

OR

Q. 5 (a) Describe the nature of industrial solid waste and differentiate it with municipal solid waste. [8]

Discuss the treatment and disposal of industrial solid waste. [8]

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