

5E3158

Roll No. : _____

Total Printed Pages : **3****5E3158****B. Tech. (Sem. V) (Main/Back) Examination, December - 2013**
Civil Engg.
5CE6.3 Solid Waste Management

Time : 3 Hours]

[Total Marks : 80
[Min. Passing Marks : 24

*Attempt any five questions. Selecting one question from each unit.
All questions carry equal marks. Schematic diagrams must be
shown wherever necessary. Any data you feel missing suitably
be assumed and stated clearly. Units of quantities used /
calculated must be stated clearly.*

Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)

1. NIL 2. NIL**UNIT - I**

1 (a) Discuss various problems of site selection for municipal solid waste. 8

(b) Discuss importance of solid waste management. 8

OR

1 (a) Classification of solid waste and how the classification will help in deciding disposal method. 8

(b) Explain how the quantity and quality of solid waste varies with respect to different factors. 8

UNIT - II

2 (a) Discuss problems of on site handling and storage of solid waste. 8

(b) Discuss the problems of house storage and community bins. 8

OR

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[Contd...

- 2 (a) How to decide the location of community container in dense urban area ? 8
- (b) Discuss process of onsite storage and processing of municipal solid waste. 8

UNIT - III

- 3 (a) Discuss different system of solid waste collection. 8
- (b) Discuss the use of different equipments in collection of municipal solid waste. rtuonline.com 8

OR

- 3 (a) The minimum requirement of labour in each type of collection system without use of equipments in collection. 8
- (b) What is the need of transfer ? What are the factors to be consider in selection of transfer station ? 8

UNIT - IV

- 4 (a) What is sanitary land filling ? Explain in detail. 8
- (b) Discuss selection of disposal system with respect to quality and quantity of municipal solid waste. 8

OR

- 4 (a) Explain incineration method of disposal of municipal solid waste. 8
- (b) What do you understand by bioremediation ? Explain in detail. 8



UNIT - V

5. (a) Discuss methods of disposal of industrial solid waste.

8

(b) Explain reuse of industrial waste with examples.

8

OR

5. Write short notes on any four of the following :

(a) Generation of energy from solid waste

(b) Secured land fill

(c) Recovery from industrial solid waste

(d) Treatment of industrial solid waste

(e) Recycle of industrial solid waste

(f) Nature of solid waste generated from industries.

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