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B. Tech  
PECE 8408

## Eighth Semester Examination – 2008

### ENVIRONMENTAL GEOTECHNIQUE

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory  
and any **five** from the rest.

The figures in the right-hand margin  
indicate marks.



1. Explain in brief : 2×10
- (a) Bioremediation
  - (b) C/N Ratio
  - (c) Geo-membranes
  - (d) Mine tailings
  - (e) Anaerobic digestion

- (f) Reclamation
- (g) Landfill gas
- (h) Water balance in landfill
- (i) Hazardous waste
- (j) Composting.

Mention the applications geosynthetics for  
control of soil pollution. 10

Discuss on the biological properties of municipal  
solid waste. 10

- (a) List the factors pertinent to the selection of  
a landfill site. 5
- (b) How would you carry out the remediation  
of a contaminated site ? 5
- 5. (a) Explain ultimate analysis of solid waste. 5
- (b) Mention the criteria for classification of  
waste as hazardous. 5

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Contd.

6. (a) Explain the different methods of landfill practices. 5
- (b) Which factors are considered in the design of ash dykes? 5
7. (a) Mention different approaches of integrated waste management techniques for control of soil pollution. 5
- (b) Draw the layout of a tailing dam. 5
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