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Total No. of Pages : 01

Total No. of Questions : 08

**M.Tech.(Civil Engg.) (2016 Batch) (Sem.-1)****GEOENVIRONMENTAL ENGINEERING****Subject Code : MTCE-204****M.Code : 74240****Time : 3 Hrs.****Max. Marks : 100****INSTRUCTION TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1.
  - a) Define Waste Generation. How can we design and operate of landfills? Explain.
  - b) What factors affecting permeability?
2.
  - a) Explain the sources and effects of subsurface contamination,
  - b) Write a short note on biological characteristics of solid wastes.
3.
  - a) Discuss different types of landfills,
  - b) Discuss design and construction process of barrier system.
4. Explain the physical and chemical characteristics of solid wastes.
5. Explain the following terms :
  - a) Siting criteria in landfills
  - b) Types of barrier materials
6.
  - a) Explain detection, control and remediation of subsurface contamination.
  - b) Give your comments on environmental monitoring around landfills.
7. Write stepwise procedure of reuse of mining and demolition waste.
8. Write short notes on the following :
  - a) Waste disposal on land.
  - b) Geotechnical reuse of waste materials.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

