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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.

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