Roll No.

Total No. of Pages: 01

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M.Tech.(Civil Engg.) (Sem.-1)
GEOENVIRONMENTAL ENGINEERING

Subject Code: MTCE-204

M.Code: 74240

Date of Examination: 23-01-23

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. Explain in detail various types of landfills their design and operations.
- 2. Explain in detail subsurface contamination control and remediation.
- 3. Discuss laboratory and field evaluation of permeability and various factors affecting permeability.
- 4. Explain in detail Barrier systems basic concepts and their design and construction.
- 5. Discuss in detail engineering properties, planning and design aspects relating to waste disposal in landfills.
- 6. Discuss in detail physical, chemical and biological characteristics of solid wastes.
- 7. What is the benefit of environmental monitoring around landfills and geotechnical reuse of waste material?
- 8. What do you understand by reclamation of old waste dumps and regulation related to it? Also, discuss waste containment principle.

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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