

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (Civil Engg.) (2016 Onwards) (Sem.-1)

GEOENVIRONMENTAL ENGINEERING

Subject Code : MTCE-204

M.Code : 74240

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

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

- 1) What are Landfills? Discuss design and operation of landfills. Illustrate your answer with the help of a case study.
- 2) What are solid wastes? Describe in detail physical, chemical and biological characteristics of solid wastes.
- 3) Explain planning and design aspects related to waste disposal in ash ponds.
- 4) Now-a-days reuse of waste materials is propagated. Discuss reuse of any three waste materials highlighting their potential in the current scenario.
- 5) Waste dumps are now being reclaimed. Illustrate your answer with case studies.
- 6) Discuss sources and effects of subsurface contamination.
- 7) Environmental monitoring around landfills is of great importance. Justify this statement with examples/case studies.
- 8) Discuss types of barrier materials explaining advantages and disadvantages of each barrier material.

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