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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech.(Geo Technical Engineering)(Soil Mechanics & Foundation Engineering) (2013 & Onwards) (Sem.-1)

GROUND IMPROVEMENT

Subject Code : CESE-9

Paper ID : [E1007]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

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

- Q1. What is the role of preloading in consolidation? Discuss in detail.
- Q2. How the strength of a granular column in soil is determined? Explain with a suitable example.
- Q3. What are the various economic consideration involved in ground improvement? Explain.
- Q4. How the compaction by vibroflocculator is carried out? Explain with the help of stepwise neat sketches.
- Q5. What do you mean by dynamic consolidation of soil? Explain in detail.
- Q6. What is the role of ground anchorage in ground improvement? Explain with relevant data from India in recent times.
- Q7. What are the various problems associated with the use of geotextile in soil improvement? Discuss.
- Q8. What is the role of cement resins in soil stabilization? Discuss with the help of a suitable example.