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Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)
08.806.9 : Elective – IV : GROUND IMPROVEMENT (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. What are the factors affecting ground improvement ?
2. Explain the blasting method used for ground improvement.
3. What is Pre loading ?
4. Write note on Column techniques for ground improvement.
5. Explain the chemical aspects of Stabilisation.
6. How electro osmotic method is applied for ground improvement ?
7. Write note on Geo-synthetics.
8. Write note on well point system.

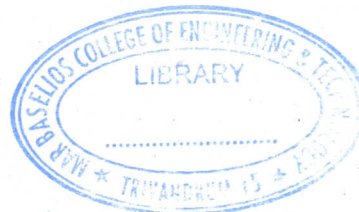
(8x5=40 Marks)

PART – B

Answer **any one full** question from **each** Module :

Module – I

9. a) Explain the dynamic compaction for ground improvement. 15
b) A low lying area was filled with building and tile waste upto height of 3 m the soil below 3 m is medium hard laterite. It is proposed to construct a three storeyed building. Suggest suitable foundation/ground improvement to be adopted. 5
10. a) Explain the application of vertical drain. 8
b) What is stone column ? Explain its method of construction. 12



P.T.O.

**Module – II**

11. Explain Grouting technique used for ground improvement. **20**
12. Describe in brief the lime stabilisation. What are the effects of lime on adjacent soil ? Discuss the construction methods. **20**

Module – III

13. What is principle of reinforced earth ? Explain with sketch the engineering application of reinforced earth. **20**
14. Explain with neat sketch the use and application of geo-textile :
- a) Filtration
 - b) Drainage
 - c) Erosion control. **20**
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