



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, December 2016
(2008 Scheme)**

08.806.9 : Elective – IV : GROUND IMPROVEMENT (C)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. Discuss the relevance of ground improvement techniques.
2. Write note on PVD.
3. Write short note on stone columns.
4. What are the factors influencing the compaction method of ground improvement ?
5. Write note on different types of grouting method used for ground improvement.
6. Explain the effect of lime on adjacent soil while using it for soil stabilisation.
7. Write note on bracket drain.
8. Write note on influence of presence of water in stabilising soil. **(8×5=40 Marks)**

PART – B

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

Module – I

9. a) Explain any one vibration method used for ground improvement. **10**
b) What are the methods adopted for field surface compaction ? **10**
10. a) Explain the preloading method used for ground improvement. **10**
b) Write note on the sand pile. Explain the method of construction. **10**

P.T.O.



Module – II

- 11. a) Explain electro osmotic stabilisation. 10
- b) Explain the method of mechanical stabilisation. 10
- 12. a) Explain method of stabilisation using cement. 10
- b) Explain about the physical and chemical aspects of stabilisation. 10

Module – III

- 13. What are the methods adopted for drainage and dewatering of construction site ?
Explain with neat sketches. 20
- 14. Write in detail about the application of geo-textile as ground improvement material.
Illustrate its applications with neat sketches. 20

