

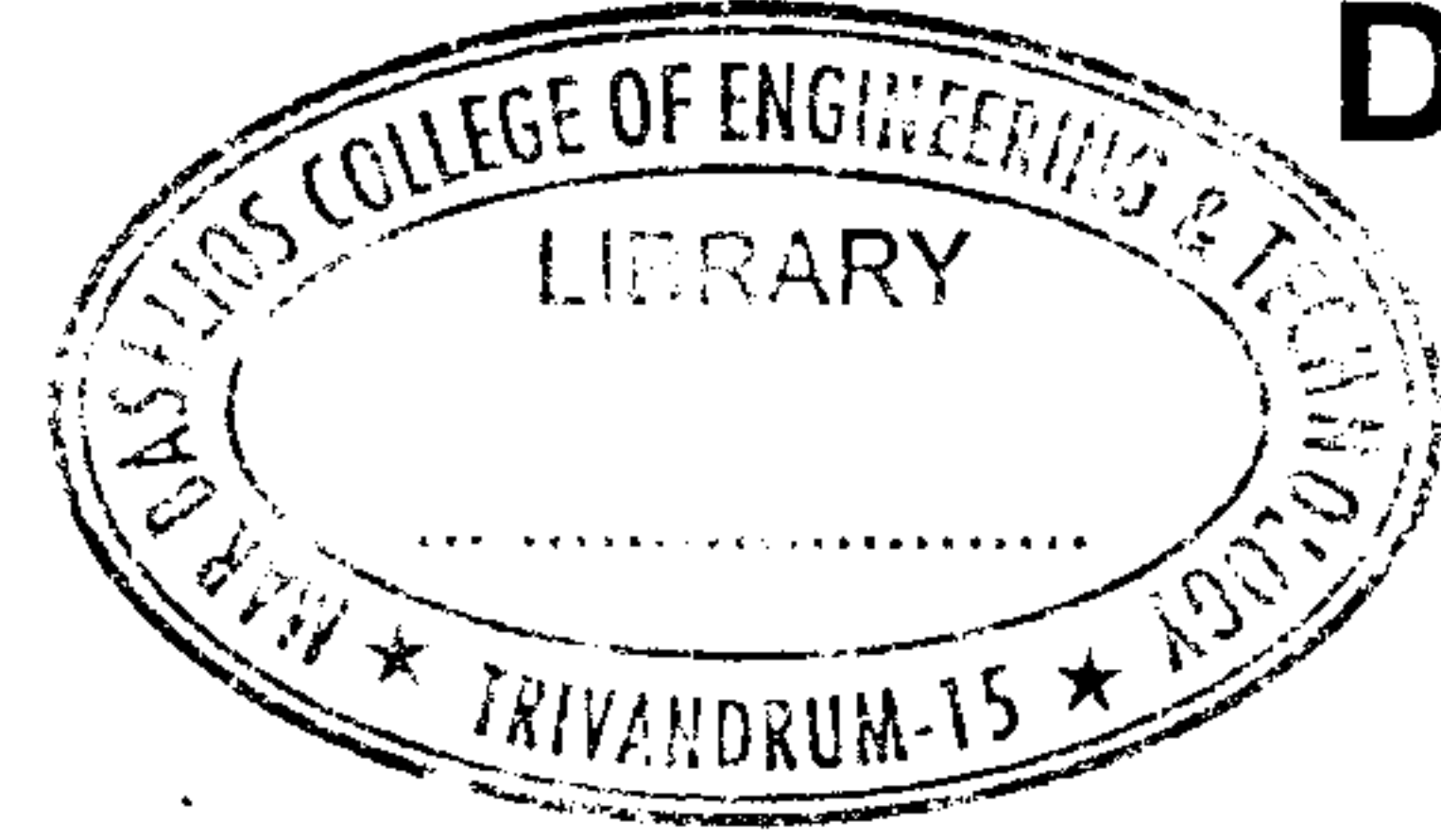


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D – 3413

Reg. No. :

Name :



**Eighth Semester B.Tech. Degree Examination, December 2017
(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. Explain the blasting method used for ground improvement.
3. Write note on PVD.
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-synthesis.
8. Write note application of geotextile for erosion control.

(8x5=40 Marks)

PART – B

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

Module – I

9. a) Explain the dynamic compaction for ground improvement. 10
b) List the different method of insitu ground improvement techniques and its applications. Explain any one method in detail with sketches. 10
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. List the different methods of dewatering and ground water lowering methods. Explain in detail the well point system of dewatering. 20
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