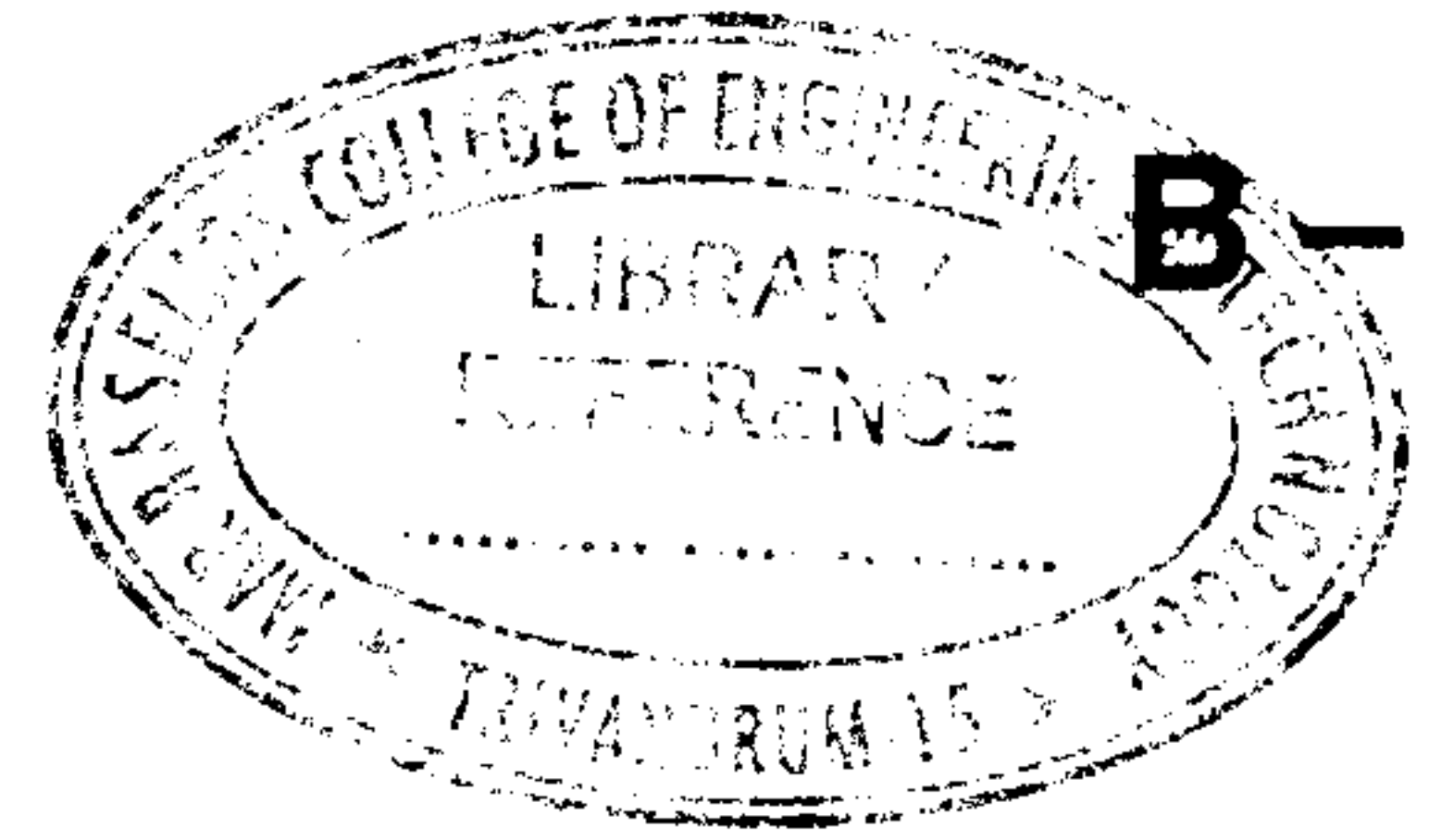




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B - 3433

Reg. No. :

Name :

**Seventh Semester B.Tech. Degree Examination, December 2016
(2013 Scheme)**

13.705.3 : GROUND IMPROVEMENT (C) (Elective – II)

Time : 3 Hours

Max. Marks : 100

Instruction : Answer all questions in Part A and any one full question from each Module in Part B.

PART – A

(5×4=20 Marks)

1. What is the role of ground improvement ?
2. Explain the advantages of grouting.
3. What are micropiles and their applications ?
4. Explain in situ densification.
5. What are Geo textiles ?

**PART – B
Module – I**

(4×20=80 Marks)

6. a) Explain the methods of drainage arrangements and lowering ground water.

OR

- b) What are electro osmotic method employed for ground improvement method ? Explain with sketches.

Module – II

7. a) Explain Deep compaction and Dynamic compaction.

OR

- b) What are sand piles ? How they are considered ? When compaction is needed ?

P.T.O.



Module – III

8. a) What are the methods available for erosion control ? Explain any one in detail.

OR

b) What are uses of soil nailing ? Where such application is adopted ? What are their limitations ?

Module – IV

9. a) What are different types of grouting techniques ? What are the preparations for grouting ?

OR

b) What are soil stabilization ? What are physical and chemical aspects of stabilization ?

