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LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR.
M.E. 2nd Semester(KSV)

MID SEMESTER EXAMINATION

Date/Day : 21/03/2014,friday

Branch : CIVIL(SEM-2)

Sub Code :

Subject Name: SOIL IMPROVEMENT
TECHNIQUES

Time : 08:30 AM to 10:00 AM

Max. Marks : 30

Instructions: 1) All questions are compulsory

2) Figures to the **right** indicate full marks.

3) Indicate **clearly**, the options you attempt along with its respective question number.

- Q.1 (A) Write a note on Vibrofloation method with its backfilling material [5]
(B) Explain formation of Residual soil and sedimentary soil. [5]

- Q.2 (A) Write about the objectives considered for the ground improvement techniques to be applied for the different types of soil. [5]
(B) What are the factors affecting groutability of the grouts used for particular soil, Also explain types of grouting material giving example depending on phase. [5]

OR

- (A) What is meant by grouting . Explain the application and aspect of this method. [5]
(B) Write about the objectives considered for the ground improvement techniques to be applied for the different types of soil. [5]
- Q.3 (A) Explain relation between Moisture and density of soil. [5]
(B) Write short note on different types of roller and give suitability for the same. [5]

OR

- (A) Explain laboratory test for determining density of soil. [5]
(B) Explain effects of water seepage ,surface erosion, vibration and mining on ground after formation. [5]