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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY SIXTH SEMESTER B.TECH DEGREE EXAMINATION (R&S), MAY 2019

Course Code: CE362 Course Name: Ground Improvement Techniques

Duration: 3 Hours Max. Marks: 100 PART A Marks Answer any two full questions, each carries 15 marks. a) Write on Ground Improvement potential. (5) b) What are the applications of grouting? Describe with the help of neat diagrams. (10)a) Give notes on different types of ground improvement techniques. (8)b) Discuss on permeation grouting. (7)a) What are the aspects and factors affecting grouting? 3 (8) b) Write short note on jet grouting. (7)PART B Answer any two full questions, each carries 15 marks. a) What are different mechanisms involved in lime stabilization? 4 (5)What are ground anchors? What are its components and applications? (10)5 a) Write short note on lime fixation point and optimum lime content. (6)b) List out and explain the effect of lime on physical and engineering properties of (9) soil. a) Discuss the process of cement stabilization in the field. 6 (7)b) Write short note on soil nailing. (8) PART C Answer any two full questions, each carries 20 marks. a) What is the range of depth of penetration of compaction if a weight of 40,000 kg (8)is dropped from a height of 20 m on the ground surface? b) Write short note on the methods of dewatering. (12)8 a) What are different compaction control tests in the field? Explain. (10)(10)b) Write short note on well point systems.

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