Reg. No. :					

Question Paper Code: 59113

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Civil Engineering

15UCE913- GROUND IMPROVEMENT TECHNIQUES

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

(Answer any six of the following questions)

1.	The process of remova		CO1- R				
	(a) blasting	(b) stabilization	(c) preloading	(d) dewater	ing		
2.	system is suitable for lowering the ground water CO1- R table where the soil formation is pervious with depth.						
	(a) consolidation	(b) preloading	(c) deep well drainage	(d) blasting			
3.	The compaction is me		CO2- R				
	(a) voids ratio	(b) porosity	(c) dry density	(d) specific gravity			
4.	Vibro-flotation is an e soils.		CO2- R				
	(a) coarse sand	oarse sand (b) granular sand (c) cohesive					
5.	The vertical drains are material installed in cl		CO3- R				
	(a) bitumen	(b) stone	(c) Sand	(d) clay			
6.	The recompression is		CO3- R				
	(a) 5 times	(b) 1/5	(c) 1/2	(d) 1/20			

7.	The part of consolit resistance to flow of known as	CO4- R						
	(a) primary	(b) tertiary	(c) secondary	(d) quaternary				
8.	The dolomite quick li	The dolomite quick lime is given by			CO4- R			
	(a) CaO + AgO	CaO + AgO (b) Na2O + MgO (c) CaO + MgO2			(d) $CaO + MgO$			
9.	If Grout is injected in then it is	CC	05- R					
	(a) Jet grouting		(b) Compaction grouting					
	(c) Permeation grouti	ng	(d) Cement grouting					
10.	The situation in whic the soil voids or rock	CO5- R						
	(a) consolidation	(d) compaction						
	PART – B (3 x 8= 24 Marks)							
(Answer any three of the following questions)								
11.	Explain the following methods.	CO1- U	(8)					
	1. Open sumps a	nd ditches						
	2. Well point syst	tems						
12.	What is meant by vib	CO2- U	(8)					
13.	Explain in detail about	CO3- U	(8)					
14.	Discuss about the me	CO4- U	(8)					
15.	. Explain about the various types of geo synthetics and its properties and CO5- Ana application in ground improvement.							