Q.P. Code: 16CE146			6
I	Reg. No:		
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS) B.Tech IV Year II Semester Regular & Supplementary Examinations July-2021			
	GROUND IMPROVEMENT TECHNIQUES		
	(Civil Engineering)		1 (0
	Time: 5 nours	. Mar	KS: 60
	(Answer all Five Units $5 \times 12 = 60$ Marks)		
1	 a List various well point dewatering systems b Explain their suitability for different soils. 	L1 L3	4M 8M
2	OR	1.2	(M
2	 b Explain the importance of Fracture grouting UNIT-II 	L3 L3	6M
3	a Explain with a neat sketch sand drain to accelerate the drainage of impervious soils.	L3	6M
	b What are the advantages of using wick geo drains? OR	L3	6M
4	a Explain briefly with a neat sketch the vibro-compaction method of densifying deep granular deposits.b What is a sand drain? How is it constructed and is useful in densifying cohesive soil	L3 L3	6M 6M
	deposits?		
_		1.0	1015
5	Describe the properties of calcium chloride that are beneficial in stabilization of soils?	L3	12M
6	 a Explain soil-lime reactions. b Discuss briefly about Lime stabilization in details. 	L3 L3	6M 6M
7	 a What are the factors affecting mechanical stabilized soil properties? b What is Gypsum stabilization? Explain in detail. 	L3 L3	6M 6M
8	 a Distinguish between geo textiles and geo grids. b Explain any four engineering applications of reinforced earth with sketches. 	L3 L3	6M 6M
9	Explain briefly about CNS technology with neat sketch which is used as foundation technique.	L3	12M
10	OR Explain briefly about under reamed piles and its applications	13	121/
IV	Explain oneny about under realied piles and its applications.	13	

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