

UNIT-III

S.No	Questions	BTL	CO	PO
Part-A(Short Answer Questions)				
1	What do you understand by in-situ densification?	L1	CO3	1
2	What are the various methods of in-situ densification?	L1	CO3	1
3	How is dynamic compaction different from static compaction?	L2	CO3	2
4	What are the merits and demerits of dynamic compaction?	L2	CO3	2
5	What is dynamic consolidation?	L1	CO3	1
6	What are the advantages of rapid impact compaction?	L2	CO3	2
7	What is vibro-flotation?	L1	CO3	1
8	What are the applications of vibro-flotation?	L2	CO3	2
9	Differentiate vibro-displacement and vibro-replacement stone columns.	L2	CO3	2
10	Differentiate top feed and bottom feed methods.	L2	CO3	2
11	How is a rammed stone column installed?	L2	CO3	2
12	What is a sand compaction pile?	L1	CO3	1
13	Differentiate lime pile and sand compaction pile.	L2	CO3	2
14	What is the principle behind pre-compression?	L2	CO3	2
15	Write the various methods of preloading.	L1	CO3	1
16	What is the function of a vertical drain?	L2	CO3	2
17	Write the various types of vertical drains used in ground improvement.	L1	CO3	1
18	Compare sand drains and wick drains.	L2	CO3	2
Part-B(Long Answer Questions)				
1	Explain dynamic compaction of cohesionless soils and dynamic consolidation of cohesive soils.	L4	CO3	3
2	Explain the principle, operation and applications of vibro-compaction.	L4	CO3	3
3	Explain installation and functioning of sand compaction piles.	L4	CO3	3
4	Write notes on sand drains, wick drains, sand wicks and plastic wicks.	L3	CO3	2
5	Explain pre-loading and the role of vertical drains.	L4	CO3	3
6	Explain installation of stone columns by vibro-displacement method.	L4	CO3	3