

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

IV B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, MARCH-2023
GEOTECHNICAL ENGINEERING-II
(CE Branch)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-AAnswer **all** the questions in Part-A (5X2=10M)

Q.No.	Questions	Marks	CO	KL
1.	a) What is the purpose of Pressure meter?	[2M]	1	1
	b) What is Taylor's Stability Number?	[2M]	2	1
	c) What are the factors influencing bearing capacity for earth retaining	[2M]	3	1
	d) What is allowable bearing pressure?	[2M]	4	1
	e) List the Forces Acting on Well Foundations?	[2M]	5	1

PART-BAnswer **One** Question from each UNIT (5X10=50M)

Q.No.	Questions	Marks	CO	KL
UNIT-I				
2.	Discuss the Need and preparation of soil investigation Methods of soil exploration?	[10M]	1	2
OR				
3.	Explain about the different Boring and Sampling methods?	[10M]	1	2
UNIT-II				
4.	Briefly explain about the different types of failures?	[10M]	2	2
OR				
5.	Summarize about the stability analysis by Swedish arc method?	[10M]	2	2
UNIT-III				
6.	Explain in detail about Rankine's & Coulomb's theory of earth pressure?	[10M]	3	2
OR				
7.	Describe the criteria for determination of bearing capacity for Earth retaining structures?	[10M]	3	2
UNIT-IV				
8.	Explain about Types of foundations with neat sketches?	[10M]	4	2
OR				
9.	What are the Types of foundation settlements and their determination?	[10M]	4	1
UNIT-V				
10.	Summarize about the Types of piles?	[10M]	5	2
OR				
11.	What are the Different Shapes and Components of Well Foundations?	[10M]	5	1
