PRN:		Course Code :	CET2509

Third Year **B. Tech** End Semester Examination Winter 2023

Site Investigation Methods & Practices

Day and Date: wednesday, 06/12/2023 Max Marks: **50**

Time : 10.30 am to 12.30 PM Duration: **02** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	What is the need of site investigation? What are its advantages?	06	L2	CO1
	b)	What are the objectives of site investigation? Explain different phases in site investigation.	06	L3	CO1
	c)	What are the possible approach for site investigation.	06	L2	CO1
Q.2		**Attempt any two from the following**			
	a)	Write a note on standard penetration test.	06	L3	CO1
	b)	Explain plate load test with neat sketch.	06	L2	CO1
	c)	Write a note on Rock quality designation and its importance in site investigation.	06	L3	CO1
Q.3		**Attempt the following**			
	a)	Explain in brief different methods of sub surface exploration.	06	L3	CO2
	b)	Explain in detail any one boring method used in soil exploration.	07	L3	CO2
		or			
	b)	Explain different types of samplings used and their importance in site investigation.	07	L2	CO2
Q.4		**Attempt the following**			
	a)	Write a note on soil consistency. Also explain consistency limits with neat sketch.	06	L2	CO3
	b)	Write a note on mechanical sieve analysis and how gradation on soil is determined.	07	L3	CO3
		or			
	b)	Explain in detail IS Code method of soil classification and different group symbols used.	07	L3	CO3

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