GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Engineering

B.TECH Civil Engineering
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem V - G1UA505T - Foundation Engineering

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Define insitu tests	K2	(2)
2)	Sketch the various types of footings	K1	(3)
3)	Describe the components of retaining wall with figure	K2	(4)
4)	Develop the effect of wall movement on earth pressure with neat sketch	K2	(6)
5)	The cone penetration resistance obtained in a clay soil in a CPT was 50kg/cm2. Determine the undrained strength of the clay. The total overburden pressure at the depth was 100kN/m2	K3	(6)
6)	Illustrate the technical formalities of seismic refraction method with required figure	K3	(9)
7)	Prescribe the assumptions of coulomb's wedge theory.	K4	(8)
8)	Derive the correlation between angle of friction and standard penetration number	K4	(12)
	OR		
	Summarize the working procedure of cone penetration test and its relationship between Dr and qc for sand	K4	(12)