GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Engineering

M.Tech Structural Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem II - G1PC206T - Earthquake resistance design

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 diaphragm discontinuity.	K2	(2)
2)	How do scientists measure the size of earthquakes?	K1	(3)
3)	Define focus and epicenter	K2	(4)
4)	Discuss about the strong column-weak beam design concept	K2	(6)
5)	List the design steps involved in Equivalent static force analysis (Lateral Load Analysis)	K3	(6)
6)	Distinguish between Epicenter and Hypocenter.	K3	(9)
7)	Define Ritcher scale and MMI scale and explain it briefly.	K4	(8)
8)	Elaborate the design principles involved in design of masonry structure.	K4	(12)
	OR		
	Explain the design steps for detremining base shear for a multistorey building.	K4	(12)