GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Engineering

M.Tech Structural Engineering
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - G1PC101T - Structural Dynamics

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)	Explain Degrees of freedom?	K2	(2)
2)	Show the equation of motion for SDOF system damped free vibration	K1	(3)
3)	Explain in detail about the free vibration of undamped system.	K2	(4)
4)	Explain plate tectonics theory with neat sketch.	K2	(6)
5)	Develop the formula for finding out the base shear using seismic coefficient method?	K3	(6)
6)	Identify the methods of dynamic analysis of multi-storeyed structure as per IS 1893 code	K3	(9)
7)	How to analyze free damped single degree of freedom system.	K4	(8)
8)	Analyse the response of structure to sine Impulsive loading .	K4	(12)
	OR		
	Analyse response of structures to rectangular impulsive loading	K4	(12)