Reg. No.:					

Question Paper Code: 99117

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Elective

Civil Engineering

	19UCE917- STRU	ICTURAL DYNAMICS	AND EARTHQUAKE	ENGINNERING				
		(Regulation	ns 2019)					
Dur	ation: Three hours			Maximum: 100 Marks				
		PART A - (5x 1	1 = 5 Marks)					
		Answer All	Questions					
1.	Unit of stiffness is.	CO1- U						
	(a) $Kg-m/s^2$	(b) N-s/m	(c) N/m	(d) $N-s/m^2$				
2.	In which system describe the motion	requires two independe	ent co-ordinate to	CO2- U				
	(a)Two degree	(b) Single degree	(c) Multiple degree	(d) Three degree				
3.	A is the recording of ground shaking at the specific location where the location is							
	(a) seismograph		(b) Seismogram	(b) Seismogram				
	(c) Seismic Instrum	entation	d) None of the these					
4.	Zero period accelera	CO4- U						
	(a) Period =0	(b) Amplitude =0	(c) Resonance	(d) Frequency=0				
5.	Peak ground acceler	eak ground acceleration is measured by instrument						
	(a) seismogram	(b) seismograph	(c) accelerographs	(d) none of these				
		PART - B (5 x	3= 15Marks)					
6.	Define logarithmic	CO1- U						
7.	What is meant by m	CO2- U						
8.	Define the term focu	CO3- R						

CO4- U

How to reduce earthquake effects on building?

structures

15. (a) Explain about the Design Considerations for the Earthquake CO5-U
Resistant Design (ERD) of Masonry structures
Or

(b) Describe the significance of planning considerations / CO5-U
architectural concepts As per Is:4326 - 1993