C

Reg. No.:					

Question Paper Code: 99117

B.E./B.Tech. DEGREE EXAMINATION, MAY 2022

Elective

Civil Engineering

19UCE917- STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINNERING

	170CL717- STRO	CIORAL DINAMICS.	AND LAKTINGUAKL	LIMINLIMING		
		(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 to 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.	Ai specific location who	s the recording of groundere the location is	und shaking at the	CO3- U		
	(a) seismograph		(b) Seismogram			
(c) Seismic Instrumentation			d) None of the these			
4.	Zero period accelera	tion is		CO4- U		
	(a) Period =0	(b) Amplitude =0	(c) Resonance	(d) Frequency=0		
5.	Peak ground accelera	ation is measured by inst	rument	CO5- U		
	(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 mo	CO2- U				
8.	Define the term focu	CO3- R				

CO4- U

9. How to reduce earthquake effects on building?

15. (a) Explain about the Design Considerations for the Earthquake CO5-U (16)
Resistant Design (ERD) of Masonry structures
Or

(b) Describe the significance of planning considerations / CO5-U (16) architectural concepts As per Is:4326 - 1993