BACHELOR OF ARCHITECTURE (BARCH)

Term-End Examination December, 2012

BARE-073 : EARTHQUAKE RESISTANT STRUCTURES (ELECTIVE 1)

11me	: 3 hours	<u> </u>
Note	: Answer any five questions. marks.	All questions carry equa
1.	Describe various probable caus Discuss the theory of plate tec	
2.	How earthquakes are measured? Describe any seismic scale devised for the purpose.	
3.	Draw a mathematical model of freedom system. Write the go and its solution for the response to harmonic excitations.	verning equation
4.	Write the governing equation o of an MDOF system. Desuperposition method of solving	cribe the mode
5.	Describe main features of meth structures for earthquake force Standard 1893(Part-I): 2002.	•

- 6. Describe various methods of seismic evaluation 14 of structures.
- 7. Describe some desirable features of buildings suggested in IS 1893 (Part-I):2002. Elaborate with the help of neat sketches.
- 8. Write short notes on any two of the following: 2x7=14
 - (a) Seismic retrofitting
 - (b) Seismic Waves
 - (c) Elastic Rebound Theory.