

**BACHELOR OF ARCHITECTURE (B.Arch.)****Term-End Examination, 2019****BARE-073 : EARTHQUAKE RESISTANT  
STRUCTURES (ELECTIVE 1)****Time : 3 Hours]****[Maximum Marks : 70**

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**Note :** Question No. 1 is compulsory. Attempt any four from the remaining questions. All questions carry equal marks.

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1. Write short notes on **any four** of the following : [4×3½=14]
- (a) Epicentre
  - (b) Liquefaction
  - (c) Richter Scale
  - (d) Tectonic Plates Theory
  - (e) Tsunami
2. What is an Earthquake and how is it different from a Tsunami ? Explain the causes of earthquake. [14]

3. Write an essay on behaviour and response of concrete during earthquake. Explain in detail through various structural components of a building. [14]
4. What are direct and indirect seismic effects ? Explain in detail any two examples of each of them. [14]
5. What are the basic features of an Earthquake Resistant Building ? Support your answer with detailed sketches.[14]
6. Why are wooden structures considered good during Earthquakes ? Explain in detail some of the construction techniques of wooden houses in earthquake prone areas. [14]
7. In the capacity of a city manager/administrator, what types of rescue and resettlement measures will you adopt in a post-disaster situation. Share some examples. [14]

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