

Civil Engineering Department
Guru Nanak Dev Engineering College, Ludhiana
Mid Semester Test-I : B.Tech 3rd year

ELEMENTS OF EARTHQUAKE ENGINEERING (BTCE-602)

Max. Marks:- 24

Time: 10:30 am to 12:00 noon

Roll No.: _ _ _ _ _

Date: Thu 19 February 2015

Notes:-

1. All questions are compulsory.
2. Don't write anything on Question paper, except 'Roll Number' at specified space.

Section-A (4 @ 2 = 8 marks)

1. What are the causes of Earthquakes?
2. Give classification of Earthquake based on different factors.
3. What is the difference between the Intensity and Magnitude of an Earthquake?
4. How "Earthquakes" are recorded? What type of information such records provide?

Section-B (2 @ 4 = 8 marks)

5. Explain briefly Body and Surface Seismic waves.
6. Enlist parameters used to describe ground motion. Explain any two in detail.

Section-C (1 @ 8 = 8 marks)

7. What is the importance of study of 'performance of buildings', 'damage of buildings' during or / and after Earthquakes. What are the lesson learnt from such studies. Illustrate bad practices in context to Earthquake Resistance Structures. Write down Do's and Don'ts to make structures Earthquake Resistant.