

## **Civil Engineering Department**

***Guru Nanak Dev Engineering College, Ludhiana***

**M.Tech 2<sup>nd</sup> year**

### **MTST-610 Earthquake Resistant Design of Masonry and RC Buildings**

Date: Fri 30 Oct 15 2<sup>nd</sup> House Test      Time: 02:30 p.m. to 04:00 p.m.      Max. Marks 30

Don't write anything on question paper except your Roll No. \_\_\_\_\_

- 1      Name different types of Structural Irregularities which affect the performance of reinforced concrete buildings during earthquakes. Discuss vertical irregularities in detail.      10
- 2      What is the “Seismoresistant Building Architecture”? Name its major aspects and discuss basic dynamics characteristics in detail.      10
- 3      Discuss various failure modes of infilled frame. How analysis of such frames is carried out using Equivalent Diagonal Struct?      10

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