

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- March-April 2017

B.Tech (VIII)/ M. Tech (II) Semester

COURSE CODE: 12M1WCE213

MAX. MARKS: 25

COURSE NAME: Earthquake Resistant Design of the Structures

COURSE CREDITS: 03

MAX. TIME: 1.5 Hrs

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Assume any missing data suitably.*

1. Write the attributes for the well performance of a building under earthquake. Also write the response reduction factor; design imposed loads for earthquakes force calculations. [5]
2. Explain the all elements of in-plan irregularities in buildings. [5]
3. Describe the vertical irregularity in the irregular buildings. [5]
4. Explain the terms: soft storey; extreme soft storey; seismic weight. [6]
5. Write the dynamic analysis methods in brief for reinforced concrete buildings [4]