Civil Engineering Department

Guru Nanak Dev Engineering College, Ludhiana

M.Tech 2nd year   **CE-516 Finite Element Method (Elective III)**

Date: Tue 6 Nov 12 3rd House Test   Time: 10:30 a.m. to 12:00 noon   Max. Marks 24

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

1   Draw sketches for tetrahedral, triangular prism and hexahedral family of 3-D elements   8
    with different nodes. Derive Strain-Displacement Matrix 8 Noded Isoparametric Solid
    Element.

2   Discuss three classes of displacement function for plate bending problems. What is   8
    Selective/Reduced Integration and how it affect behaviour of Plate Element.

3   Discuss eight noded Shell element in detail and its formulation.   8