

Civil Engineering Department

Guru Nanak Dev Engineering College, Ludhiana

M.Tech 2nd year

CE-516 Finite Element Method (Elective III)

Date: Thu 27 Sep 12 2nd 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 Write down i) Convergence requirements, ii) Compatibility requirements and iii) Geometric Invariance for displacement function. 8

What are the characteristics of Natural Co-ordinates. In what way use of Natural Co-ordinates is advantageous.
- 2 Discuss Constant Strain Triangle element in detail and its formulation. 8
- 3 Discuss four noded Rectangular element in detail and its formulation. 8

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