www.rgpvonline.com www.rgpvonline.com [Total No. of Printed Pages: 2 Total No. of Questions: 8] Roll No MVSE-202 M.E./M.Tech. II Semester Examination, December 2017 FEM in Structural Engineering Time: Three Hours www.rgpvonline.com www.rgpvonline.com Maximum Marks: 70 Note: i) Answer any Five questions. ii) All questions carry equal marks. Write a note on FEM. Compare FEM with other methods. Explain Jacobs method. Write a note on Range Kutta method. Write a brief note on Choleskty's decomposition. Explain computer implementation of Gaussian eliminations. Explain the importance of shape in FEM. Explain the importance of types and number of element in FEM. Write a brief note on node numbering technique. Explain formulation of element characteristics matrices

www.rgpvonline.com www.rgpvonline.com [2] http://www.a2zsubjects.com Explain Lagrange function. Explain Hermite interpolation function. Explain isoparametric elements. Explain the procedure of formulation of equilibrium equation. ment h.

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WWW. FEBRUOTHITE. Explain Assembly of element matrices and vectors.

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