T.E.(Mechanical Engineering)

COMPUTER AIDED ENGINEERING

(2019Pattern) (Semester-VI)

1. Write short note on procedure to determine the stresses and strains for the truss element.
2. State and explain different types of nonlinearities.
3. Determine the stresses and strains for 2D CST element using any approach.
4. Differentiate between the Linear and Nonlinear analysis.
5. Determine the structural stresses and strains for 1D bar element using a direct and energy approach?
6. Write short note on different methods for handling geometric non-linear problems.
7. Write short note on
   1) Plane stress 2) Plain strain 3) Axisymmetric problem.
8. Differentiate between the static and dynamic analysis.
9. Explain Frequency domain analysis.
10. Write short note on Dynamic analysis.
11. Explain three dimensions of fluid dynamics.
12. Explain concept of NVH.