

Answer ALL questions (5 x 12 = 60 Marks)1. Compulsory

- a. Describe the general steps involved in the analysis through Finite Element method. (6)
 b. List the advantages, disadvantages and the applications of FEM. (6)

2. A beam AB of span 'l' simply supported at ends and carrying a concentrated load 'W' at the centre 'C' as shown below.



Determine the deflection at the Midspan by using Rayleigh – Ritz method and compare with the exact solution.

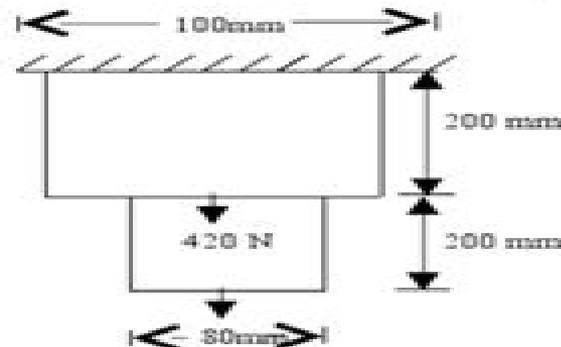
(OR)

3. The following differential equation is available for a physical phenomenon:

$$\frac{d^2 y}{dx^2} - 10x^2 = 5 ; \quad 0 \leq x \leq 1$$

The boundary conditions are : $y(0) = 0$ and $y(1) = 0$. By using Galerkin's method of weighted Residuals to find an approximate solution of the above differential equation and also compare with exact solution.

4. A thin steel plate of uniform thickness 25mm is subjected to a point load of 420N at mid depth as shown in figure.



[P.T.O]

The plate is also subjected to self-weight. If young's modulus $E = 2 \times 10^5 \text{ N/mm}^2$ and unit weight density, $\rho = 0.8 \times 10^{-4} \text{ N/mm}^3$, calculate the following

- a. Displacement at each node point. b. Stresses in each element

(OR)

5. For the Two bar Truss shown in the figure below, determine the displacements of node 1 and the stress in element 1 – 3. 12 kN

Finite Element Analysis Question And Answer Key

Robert R. Redfield



Finite Element Analysis Question And Answer Key:

Embracing the Beat of Appearance: An Mental Symphony within **Finite Element Analysis Question And Answer Key**

In some sort of consumed by monitors and the ceaseless chatter of immediate communication, the melodic beauty and psychological symphony produced by the published word usually diminish into the background, eclipsed by the relentless noise and disturbances that permeate our lives. However, set within the pages of **Finite Element Analysis Question And Answer Key** a marvelous fictional value overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this interesting masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed melodies and profound influence resonating within each carefully crafted phrase. Within the depths of the poignant analysis, we shall explore the book is main harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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