

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.

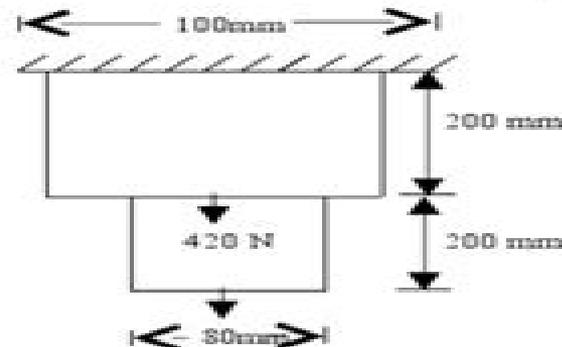
(OR)

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

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AW Chickering



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