

Program: Civil Engineering (New Course)

Year/Part: II/II

Subject: Mechanics of Structure

Full Marks: 80

Pass Marks: 32

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt any Five questions.

1. a) Define statically determinate and indeterminate structure. Derive the relation between young modulus of Elasticity ( $E$ ) and modulus of Rigidity ( $G$ ). [3+5=8]

b) A 4m long and 200mm diameter of steel structure is connected by two grips and maintained temperature of  $93^\circ$ . Determine the stress and force exerted when temperature fall to  $20^\circ$  if

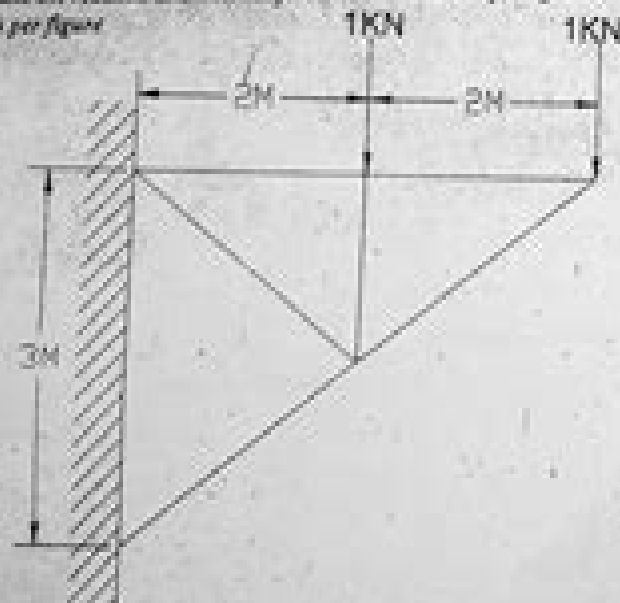
i) The two ends do not yield

ii) The ends yield by 0.13cm.

Given:  $E = 2 \times 10^5 \text{ MN/m}^2$ ,  $\alpha = 12 \times 10^{-6}/^\circ\text{C}$

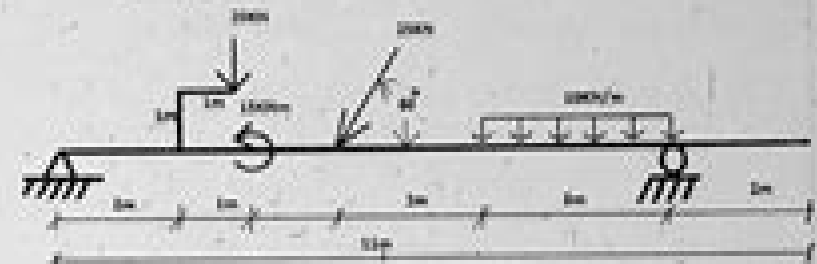
2. a) Discuss the difference between the section method and joint method of truss analysis. [8]

b) Determine the reaction and internal forces of the member of the given loaded truss as per figure [8]



3. a) Derive the relationship between axial force, shear force and bending moment of a determinate structure. [6]

b) Draw axial force diagram, shear force diagram and bending moment diagram of given loaded beam as shown in figure. [10]



4. a) Derive the formula for deflection of simply supported beam of span  $l$  having uniformly distributed load  $\frac{w}{\text{length}}$  over the whole span by double integration method. [8]

b) A simply supported beam of length 4m and cross-section  $100 \times 100\text{mm}$  have a point load of  $P$  at mid span. The maximum bending stress is 100 MPa. Determine the point load  $P$ . [8]

5. a) Define torque, angle of twist and stress due to torsion [8]

b) A 7m long column with  $400\text{mm} \times 200\text{mm}$  cross section was hinged at one end and fixed at other end. Determine safe load of the column if the factor of safety is 1.75. The modulus of elasticity of column is  $10 \text{ kN/mm}^2$ . [8]

6. Write short notes (Any Four) [4x4=16]

a) Support and its reaction

b) Hook's law

c) Point of contra flexure

d) Slenderness ratio

e) Section modulus

f) Derivation of Euler's formula for column.

The End

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