Council for Technical Education and Vocational Training Office of the Controller of Examinations Sanothimi, Bhaktapur

Regular Exam-2072, Bhadra/Ashwin

Program: Civil Engineering (New Course)

Year/Part: II/II

Full Marks: 80 Pass Marks: 32

Subject: Mechanics of Structure

Time: 3 hrs.

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

Attempt any Five questions.

I. a). Define statically determinate and indeterminate structure. Derive the relation between young modulus of Electricity (E) and modulus of Rigidity (C). [3+5-8]

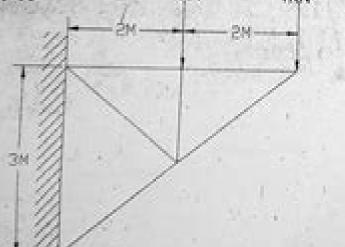
b) A tim long and 200mm diameter of steel structure is connected by two grips and maintained temperature of 95°. Determine the stress and force exerted when temperature full to 20° c if

- i) The two ends do not yield.
- ii) The ends yield by 0.15cm.

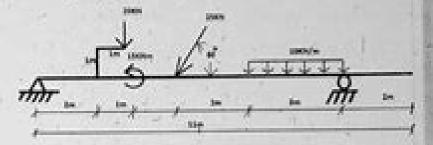
Green: E = 2x10 MN/m1 a = 12x10 4/c

Discuss the difference between the section method and joint method of trust analysis.

Determine the reaction and internal forces of the member of the given leaded tours at per figure 1KN 1KN



- 3. a) Derive the relationship between usual force, shear force and bending moment of a determinate structure. [6]
- b) Draw usial force diagram, shear force diagram and hending moment diagram of given loaded beam as shown in figure. [10]



d. a) Derive the formula for deflection of simply supported beam of span "I" having uniformly distributed load "over the whole span by double

integration method.

[25]

(8)

1454-161

A simply supported beam of length 6m and croto-section 100x100mm have a point load of 'P' at mid span. The maximum bending stress is 100 MPa. Determine the point load 'P'.

[8]

- (3) Define torque, angle of twist and stress due to torsion
- b) A 7m long column with 400 mm x 200mm 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 KN/mm². [8]
- 6. Write short notes (Any Four)

a) Support and its reaction

to Monk's law

- c) Point of contra flexure
- d) Stenderness ratio
- e) Section modulus
- f) Derivation of Euler's formula for column.

The Section

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