Menoufia University
Faculty of Engineering
Shebin El-Kom

Academic Year: 2014-2015

Date:

30/5/2015



Department: Civil Eng. Year: Postgraduate

Subject/Code: Analysis of structure in

the space

Time Allowed: 3 hours

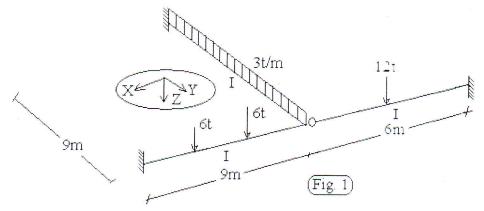
Allowed Tables and Charts: (None or e.g. Steam Tables)

Answer all the following Questions [100 Marks]

Marks

Question (1)

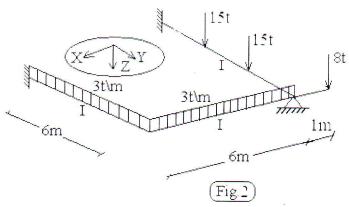
For the shown structure (Constant I), draw shear force, bending moment and torsion moment diagram. [33]



Question (2)

For the shown structure, conclude the overall stiffness matrix.

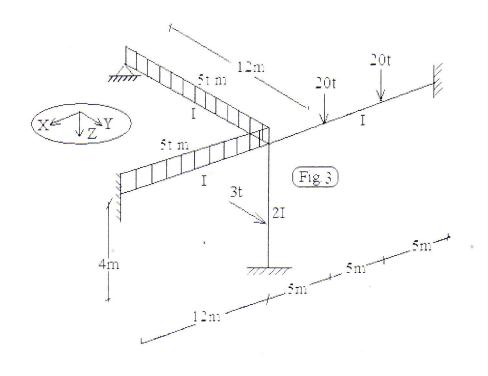
[35]

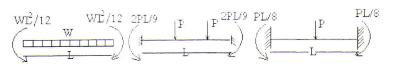


Question (3)

[35]

For the shown structure, draw shear force, bending moment and torsion moment diagram.





With my best wishes