Kafrelsheikh University. Faculty of Engineering. Architectural Engineering Dept. Final Exam.



Year: 2nd.

Subject: Theory of Structures

Time Allowed: 3 hours.

Date: 18 / 3 / 2021. Full mark: 35 Marks.

Answer all the following questions: [35 Marks]

Question 1 [10 marks]

Draw the normal force, shear force and bending moment diagram due to the applied loads for the given compound beam in Fig. 1.

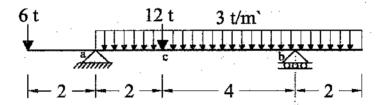


Fig. 1

Question 2 [15 marks]

For the given frame in Fig. 2, draw the normal, shear force and bending moment diagrams.

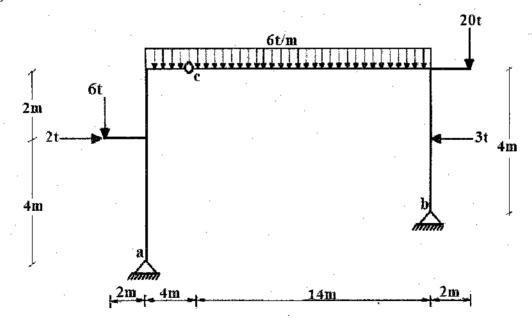


Fig. 2

Question 4 [10 marks]

Find analytically the forces in all members of given truss in Fig. 3.

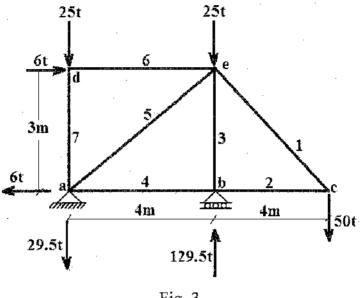


Fig. 3

This exam measures the following ILOs							
Question Number	Q1	Q2	Q3	Q1	Q2	Q1	Q3 ·
· 6	Knowledge &understanding skills			Intellectual Skills		Professional Skills	

Good Luck Dr. Fathi Abdelazeem Abdelmgeed