

Ministry of Higher Education

Giza Higher Institute of Engineering & Technology

Civil Engineering Department

Course Name: Theory of Structures (4)

Course Code : CIV 302 Date : 17 / 3 / 2018

Academic Year: 2017/2018
Semester: Second
Level: 3rd
Time: 1 Hour
Examiner: Dr. M. Abdel-Kader

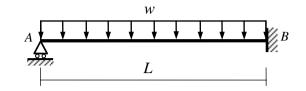
Mid-Term Exam

Total Marks: 20 No. of Questions: 2

Student Name:

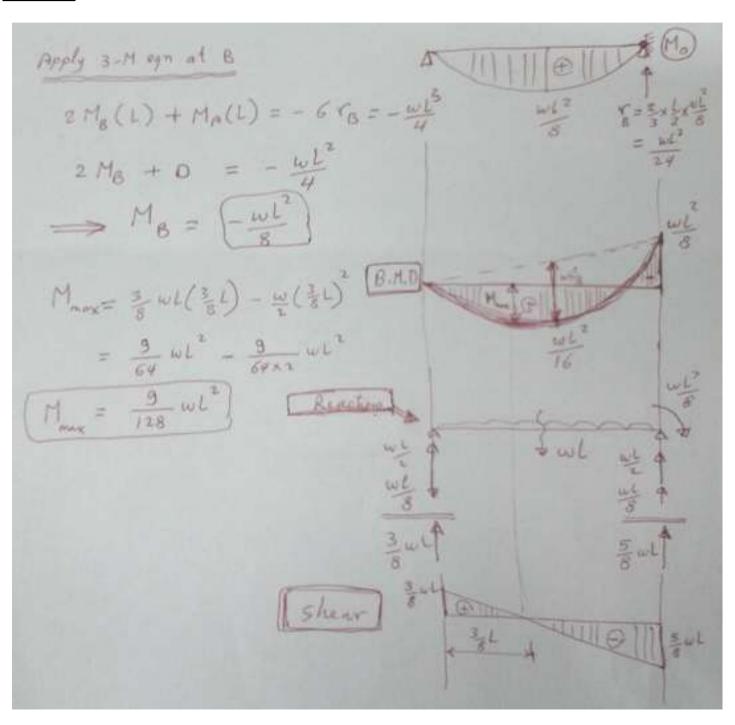
Question (1): (10 Marks)

For the shown beam, using the **three-moment equation**, draw the shear force and bending moment diagrams due to the applied load.



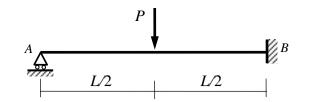
Code:

Solution:



Question (2): (10 Marks)

For the shown beam, using the **Consistent Deformations** (**Virtual Work**) method, draw the bending moment diagram due to the applied load.



Solution:

