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**
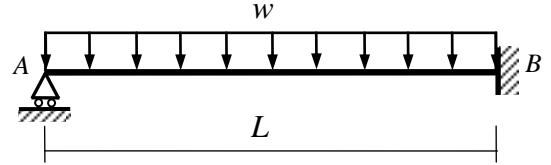Level : **3rd**
Time : 1 **Hour**
Examiner**: *Dr. M. Abdel-Kader***

Mid-Term Exam

Total Marks**: 20**   No. of Questions**: 2**

Student Name: **Code:**

Question (1): (10 Marks)
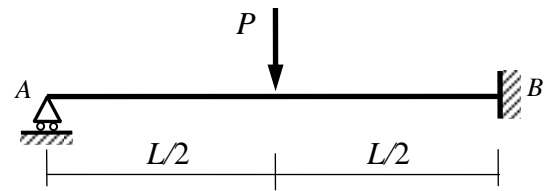
For the shown beam, using the **three-moment equation**, draw the shear force and bending moment diagrams due to the applied load.

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: