Ministry of Higher Education Giza Higher Institute for Eng. & Tech.

Civil Engineering Department

Course Name: Theory of Structures (1)

Course Code: CIV 201



Academic Year : 2014–2015

Semester : First Level : 2^{nd}

Time: 1½ Hours
Date: 25 / 11 / 2014

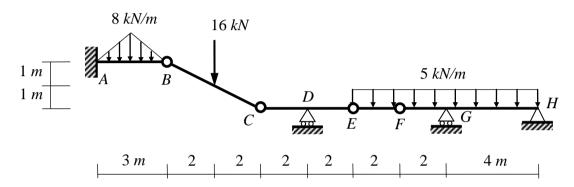
Examiner: Dr. M. Abdel-Kader

Mid-Term Exam

- Attempt all questions.
- The Exam consists of 2 questions in 1 page.
- Maximum grade is 20 Marks.

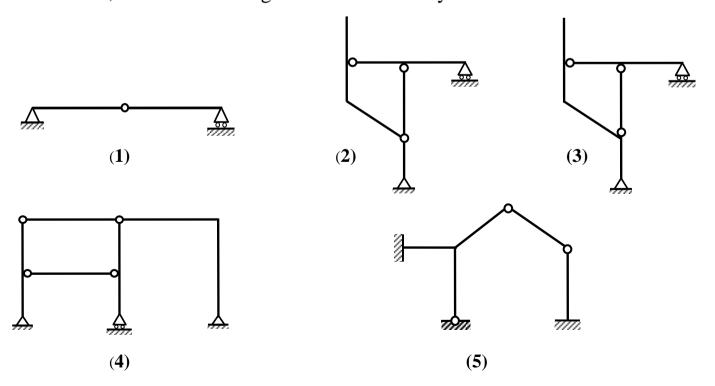
Question (1): (14 Marks)

For the shown beam, determine the reactions at the supports A, D, G, and H. *Note:* In your answer sheet, draw the final reactions (direction and magnitude) on the beam.



Question (2): (6 Marks)

Determine whether each of the shown structures is stable or unstable. If stable, determine whether it is statically determinate or indeterminate. If statically indeterminate, determine the degree of indeterminacy.



Good luck!

Dr. M. Abdel-Kader