

**Ministry of Higher Education** 

Giza Higher Institute of Engineering & Technology

**Civil Engineering Department** 

Course Name: Theory of Structures (1)

Course Code : CIV 201 Date : 10 / 11 / 2018

**Mid-Term Exam** 

Total Marks: 20 No. of Questions: 2

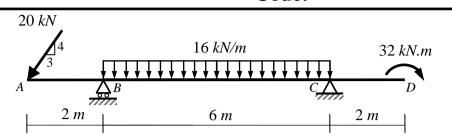
Academic Year: 2018/2019
Semester: First
Level: 2<sup>nd</sup>
Time: 1 Hour
Examiner: Dr. M. Abdel-Kader

Name: Code:

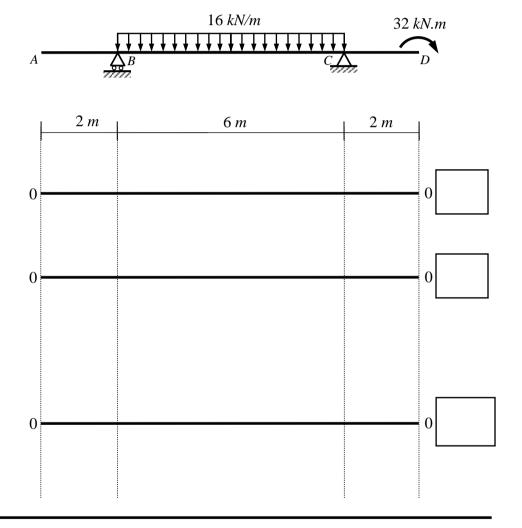
## Question (1): (15 Marks)

For the shown beam:

- Determine the reactions
- Draw the normal force, shear force and bending moment diagrams.



## Solution:



## Question (2): (5 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.

