

Quiz.2
Spring 2014-2015
 (April 15, 2015)
CIVE210 – STATICS
CLOSED BOOK, 1 HR 15 Minutes

Name: _____

ID#: _____

NOTES

- 3PROBLEMS– 13 PAGES.
- ALL YOUR ANSWERS SHOULD BE PROVIDED ON THE QUESTION SHEETS.
- **TWO EXTRA SHEETS ARE PROVIDED AT THE END.**
- **ASK FOR ADDITIONAL SHEETS IF YOU NEED MORE SPACE.**
- SOME ANSWERS MAY REQUIRE MUCH LESS THAN THE SPACE PROVIDED.
- **DO NOT** USE THE BACK OF THE SHEETS FOR ANSWERS.
- QUESTION SHEETS SHOULD BE RETURNED.

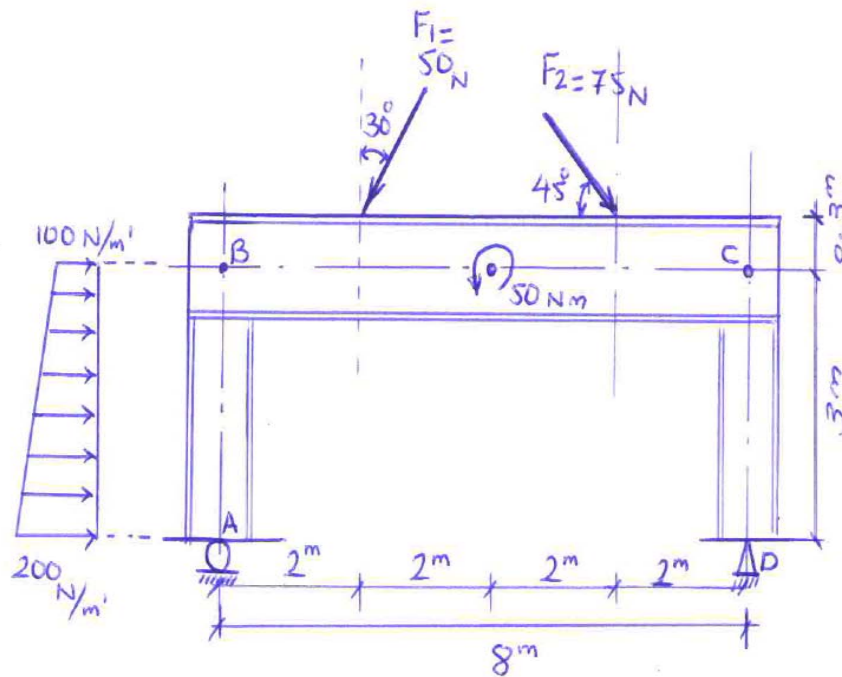
YOUR COMMENT(S)

DO NOT WRITE IN THE SPACE BELOW

MY COMMENT(S)

YOUR GRADE

<i>Problem I:</i>	___ /25
<i>Problem II:</i>	___ /25
<i>Problem III:</i>	___ /50
<u>TOTAL:</u>	
	/100

Problem II: (25 points)**Figure II**

A rigid steel frame system is subjected to the forces and couple shown in Figure II.

1. Reduce the system of forces and couples shown in Figure II to a single resultant force and single resultant moment at the support A. (17 points).
2. Based on Part 1, it is required to reduce the resultant force and resultant moment to a single resultant force located on the line AB. Determine the location of this resultant force on AB measured from A. (8 points)

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