

QUIZ 1
Spring 2005-2006
 (Wednesday March 22, 2006)
CIVE311 – STRUCTURES I
CLOSED BOOK, 1 & 1/2 HOURS

Name: _____

ID#: _____

NOTES

- 2 PROBLEMS – 16 PAGES.
- ALL YOUR ANSWERS SHOULD BE PROVIDED ON THE QUESTION SHEETS.
- **ONE EXTRA SHEET IS 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.
- DRAFT BOOKLET WILL BE PROVIDED; BUT DO NOT USE FOR ANSWERS.
- BOTH QUESTION SHEETS AND DRAFT BOOKLET SHOULD BE RETURNED.
- CHECK BOXES ARE TO CONFIRM THAT YOU HAVE SOLVED A QUESTION.



YOUR COMMENT(S)

DO NOT WRITE IN THE SPACE BELOW

MY COMMENT(S)

YOUR GRADE

Problem I: ___ /30
Problem II: ___ /70
Other: ___

TOTAL: /100

Calculations and/or Diagrams (cont'd):

A series of horizontal dashed lines provided for calculations and diagrams.

Problem II: (70 points)

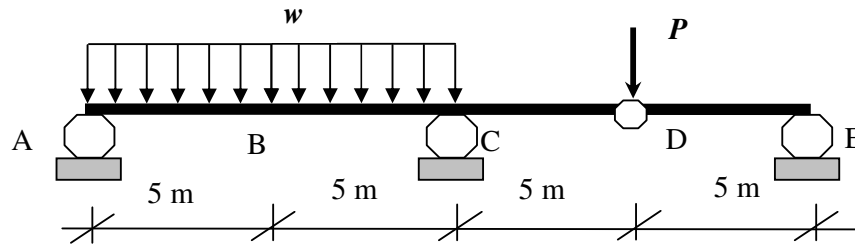


Figure II

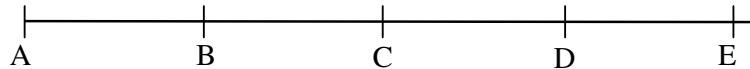
For the beam shown in Figure II, the own weight is neglected.

Your diagrams/sketches should include any feature/value you think is relevant or important.

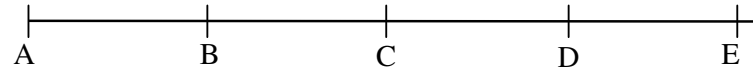
- Let $w=20 \text{ kN/m}$ and $P=20 \text{ kN}$

Compute the reactions in the beam, and draw the shear and bending moment diagrams; sketch the deflected shape. (20 points)

SHEAR:



MOMENT:



DEFLECTION:

