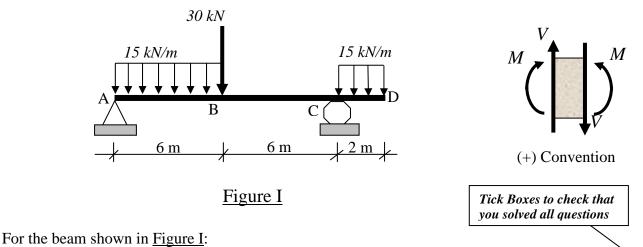
Quiz.2

Fall 2014-2015 (November 26, 2014) CIVE210 – STATICS

CLOSED BOOK, 1 HR 30 Minutes

Name:	<u>ID</u> #:	<u> </u>	ection:	
NOTES				
 2 PROBLEMS- 11 PAGES. ALL YOUR <u>ANSWERS</u> SHO 		THE OTIESTIC	MCUEETC	
 ALL TOOR <u>ANSWERS</u> SITE TWO EXTRA SHEETS IS 1 		-	IN SHEETS.	
ASK FOR ADDITIONAL S				
• SOME ANSWERS MAY RE			PROVIDED.	
• DO NOT USE THE <u>BACK</u> O	F THE SHEETS FOR ANS	WERS.		
• <u>DRAFT</u> BOOKLET WILL BE	-			
BOTH QUESTION SHEETS				
• <u>CHECK BOXES</u> ARE TO CO	ONFIRM THAT YOU HAV	/E SOLVED A	QUESTION.	
•				
<u>YOUR COMMENT(S)</u>				
DO NOT	WRITE IN THE SPAC	<u>CE BELOW</u>		
<u>MY COMMENT(S)</u>				
YOUR GRADE				
IOUR ORADE	I	Problem I:	/35	
		Problem I:	/65	
	-	· · · ··		

Problem I: (35 points)



Quiz 2

- 1- Compute the reactions at supports A and C. (5 points)
- 2- Using the method of sections, write the equations for shear and moments between A and B, B and C, and C and D. (18 points)
- 3- Draw the shear force and bending moment diagrams (use the space provided below for the diagrams and draw to scale as much as you can). Show the important and necessary features and values on the diagrams and indicate the maximum positive and negative shears and moments in the beam. (*12 points*)

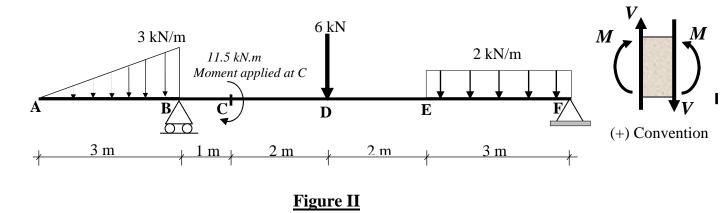
 $\underline{S.F.D} \qquad A^{\dagger} \qquad \underline{B} \qquad C \qquad D$

Calculations and/or Diagrams:

Calculations and/or Diagrams (cont'd):

Calculations and/or Diagrams (cont'd):

Problem II: (65 points)



For the beam shown in Figure II:

- 1- Compute the reactions at supports B and F. (5 points)
- 2- Using sections, compute the shear force and bending moments at points A, B,C, D,E, and F. (20 points)
- 3- Using a proper origin, write the equations for shear and moments between A and B and E and F, confirm your results obtained in question 2. (*10 points*)
- 4- Using the method of integration (or areas), draw the shear force and bending moment diagrams (use the space provided below for the diagrams and draw to scale as much as you can). Show the important and necessary features and values on the diagrams and indicate the maximum positive and negative shears and moments in the beam. (*30 points*)

Calculations and/or Diagrams:

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A ⁻	В	C-	D	E	J
Ā	<u>B</u>	<u>-</u>	D	Е Е	F

Calculations and/or Diagrams (cont'd):

Calculations and/or Diagrams (cont'd):

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Calculations and/or Diagrams:	

EXTRA SHEET 2: Continued from page **ID#:** Name: Calculations and/or Diagrams: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____