195 - Test 5		A	B	C
1	CHAP 10 6 points *Using words, diagrams and equations*	Derive and explain equation 10.21. Compare it to equation 5.2. This was dine in class. You need diagrams!	Show how one can derive the KE of a rotational system from the KE of a linear system. It's on my website. I showed you this in lecture. How are these two quantities analogous? You always need a diagram!	Explain example 10.12, Discuss the results. Do the results make sense?
2	CHAP 11 You choose 6 points *Using words, diagrams and equations*	Derive equation 11.16. How is this eq. analogous to eq .2? You will always need diagrams!	Derive eq 11.11.How is this equation analogous to eq. 9.3? You will always need diagrams!	Set-up and explain the FBD in ch 12 problem #46. I did this in class. How would you begin to solve this problem. Don't solve it!
3	CHAP 10 4 points	Quick Quiz 14	Quick Quiz 12	Quick Quiz 10
4	CHAP 10 4 points	Quick Quiz 3	Quick Quiz 4	Quick Quiz 5
5	CHAP 11 4 points	Quick Quiz 2	Quick Quiz 7	Quick Quiz 6
6	CHAP 10 4 points	Problem #31	Problem #12	Problem #6
7	CHAP 11 4 points	Problem #11	Problem #23	Problem #28
8	CHAP 12 4 points	Problem #3	Problem #3	Problem #3
9	CHAP 10/11/12 24 points **DRS**	Ch 12 Problem #23	Ch 11 Problem #49	Ch 10 Problem #82

Test Date – <u>Tuesday 4/22/08 at 12:30 pm</u>

You will **randomly** receive one of three versions of the test above. You cannot have any notes. There are two questions (1 and 2) that require you to write a complete and concise explanation along with an appropriate diagram and mathematical logic (equations). Practice these questions. Write your answer out. Do not use paragraphs. Use bullets or steps. Pretend that you are to provide an explanation to the class.

There are 3 multiple-choice questions which require a correct and **brief explanation** as to why you chose your answer. There are also 3 basic problems that require you to show some of your work. These are not easy or simple problems. Basic means that you are capable and prepared to solve these problems.

Problem 9 requires that you show a complete diagram, clear reasoning and a correct solution. Practice drawing your diagram. Diagrams are important. They demonstrate your knowledge and understanding of the problem. They are not for show. I will start this test at 12:30 pm. You will have 75 minutes. **NO programmable calculators**. No books or notes.