Exam 2 “solutions”

ChemEng 575, Spring 2014

**Problem 1.**

Mechanics of soft tissue (50 points)

This is a writing/logical argument exercise. As in problem #2 from Exam 1, I am looking for you to make a sound argument and use all the allotted space I allowed (1 page or less). This is good practice for your grant writing project, to be able to make a sound argument within a confined space. But, as I mentioned in class for feedback from Exam 1, make sure to use all the space you’re given! That is the amount of space I think you need to hash out your argument.

I gave you 4 topics that I wanted you to discuss in your response (parts A-D). Those are worth 10 points each (40 total points just by bringing each of these up). Maximum points awarded to those who logically back up their choices made in points A-D. Referencing items we discussed in class is a good idea.

5 points for hitting the 1 page limit well and for including references.

5 total points for grammar/spelling/plagiarism.

**Problem 2.**

Improving graft design (50 points)

This is also a writing/logical argument exercise. As in problem #1, I am looking for you to make a sound argument and use all the allotted space I allowed (1.5 pages or less). Again, make sure to use all the space you’re given! That is the amount of space I think you need to hash out your argument. In fact, it’s a really small amount of space. You will have to be very concise.

I gave you 4 topics that I wanted you to discuss in your response (parts A-D). Those are worth 10 points each (40 total points just by bringing each of these up). Maximum points awarded to those who logically back up their choices made in points A-D. Part D requires a quantitative or semi-quantitative analysis of flow rates that exist in these different types of areas, so that needs to somehow be used or referenced in your response. Discussing the mechanical properties of tissues and materials we discussed in Lectures 7-8 is a good idea.

5 points for hitting the 1.5 page limit well and for including references.

5 total points for grammar/spelling/plagiarism.