

DEPARTMENT OF MEDICINAL CHEMISTRY  
SCHOOL OF PHARMACY

Introduction to Pharmaceutical Sciences  
Exam 1

PCEU/MEDC 607  
October 30, 2007

**STUDENT NAME**

**HONOR PLEDGE**

*Dr. Yan Zhang's Section*

See separate sheets

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*Dr. Susanna Wu-Pong's Section*

Describe a class of drug or therapy produced by biotechnology. Include in your description the type of technology involved, how the drug or therapy are designed, and any other issues unique to the drug or therapy that are different compared to small molecules. (10 points)

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*Dr. Glen Kellogg's Section*

Molecular mechanics is based on physical principles and laws rather than chemistry. Give (and very briefly discuss) two examples of how physics is used to describe the conformation and energy of an organic molecule in a typical molecular mechanics forcefield. (10 points)