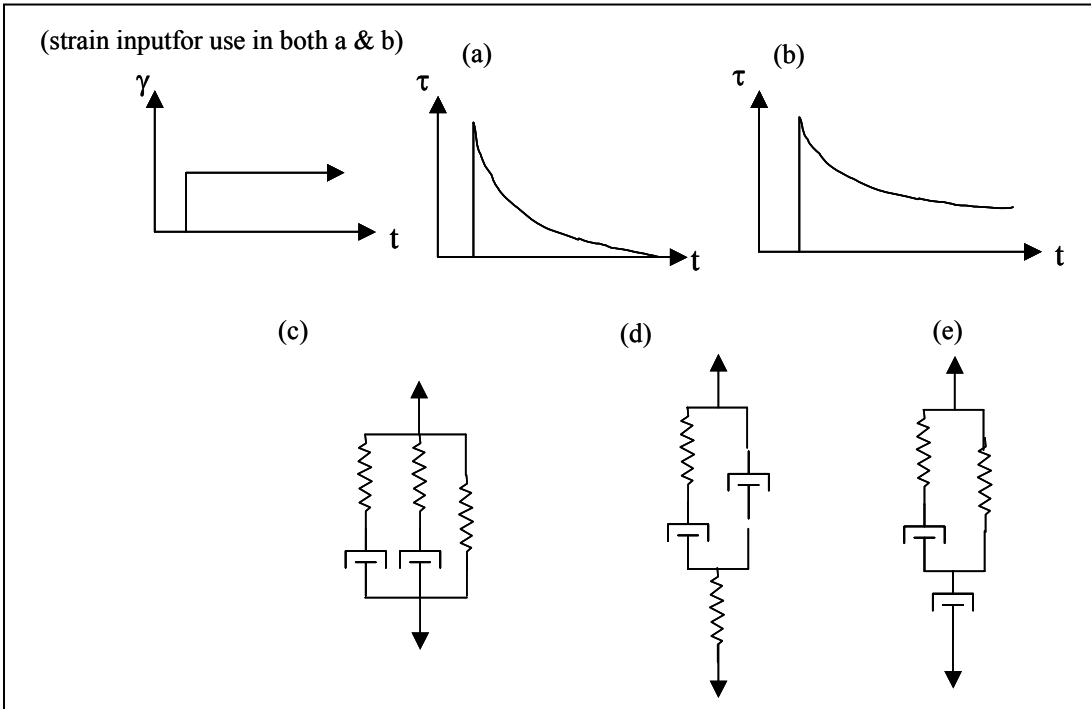


**ME 208– Biomechanics II**  
**Assignment 1 – Due Monday 1/30/2005**

Problem 1: Describe the mechanical roles of both proteoglycans and collagen in providing cartilage with its unique material properties.

Problem 2: In each of the diagrams, state whether the schematic, or stress response is a viscoelastic solid or viscoelastic fluid and explain why.



Problem 3: Draw a schematic of a possible stress-relaxation experiment (input and output) for the material represented by the model in c,d, e.

Problem 4: Draw a schematic of a possible creep experiment (input and output) for the material represented by the model in c, d, e.