## BIO 131 PAL Week 6 – Problem Set 1

## SKELETAL MUSCLE

JILLLI	AL WOOCLE
1.	Write at least one potential essay question and one potential multiple choice question for the skeletal muscle section of a BIO 131 exam.
with ne	e a schematic showing all the steps during skeletal muscle excitation/contraction coupling. Begin eurotransmitter release from a somatic motor neuron and end with the "powerstroke" between nd myosin (add as much detail as possible: ions, ion channels, equilibrium potentials, regulatory as etc.)
3.	List all possible ways you can think of that will induce flaccid muscle paralysis. For each, make a drawing of a somatic motor neuron and a skeletal muscle cell to explain what is happening.
4.	True or false: Increasing the extracellular Ca++ concentration around a muscle fiber will increase the force of contraction for the fiber. Explain your reasoning.

5.	How do you think your muscle fibers change when you begin endurance training? How do you
	think they change when you begin weight training?
6.	After death the body freezes in position ("rigor mortis"). Explain why this occurs.
7	Which stone of skalatal muscle contraction (valouation require ATD2 Where does this ATD come
7.	Which steps of skeletal muscle contraction/relaxation require ATP? Where does this ATP come from?