Name: <u>Key</u> Bio 137 — Human Anatomy & Physiology I	Section:10 pts
Muscle Physiology Prelab Assi Due at the start of next week's l	gnment
<u>Instructions:</u> View the "Muscular System" module of the InterAction with your lecture text. This assignment covers the "Contraction of Whole Muscle" topics. Click on each of these topics and an <u>Note:</u> students lacking the CDs will be able to use them in the	on of Motor Units" and "Contraction swer the relevant questions below.
Topic: Contraction of Motor Units 1. What is a motor unit? A motor neuron and all of the muscle cel	ls ít stímulates .
2. What is meant by recruitment? The stimulation of additional motor unit contraction.	ts for increased strength of
3. Why do some motor units only have a few muscle cells? To allow for more precise movements.	
4. The constant state of low level tension in a muscle is called	Muscle tone .
Topic: Contraction of Whole Muscle	
5. A <u>Muscle twitch</u> is a contraction due to a single	stimulus.
6. What are the three phases of muscle contraction?1. Latent period2. Contraction3. Relaxation	
7. <u>Temporal</u> summation occurs when a second corcomplete relaxation.	ntraction is added to the first before
8. <u>Complete tetanus</u> occurs when stimulation is s and continuous without any relaxation.	to rapid that the contraction is smooth
9 What are the three factors that determine the strength of a muscl	e contraction?

- - Frequency of stimulation.
 Number of motor units recruited.
 - 3. Degree of muscle stretch.
- 10. According to the simulation, **unstretched** / **moderately-stretched** / **overstretched** (circle one) muscles have the strongest contractions.