1. (1 pt) Free-nerve endings respond to
   a) pressure and low frequency vibration
   b) pain and temperature
   c) pressure but not vibration
   d) high frequency vibration and temperature

2. (2 pts) Circle which of the following sensory receptors have small receptive fields:
   Meissner’s corpuscles  Merkel’s discs  Pancinian corpuscles  Ruffini endings

3. (1 pt) Describe briefly what it means for one of these somatosensory receptors to “have a small receptive field”.

4. (2 pts) Match up each of the following central nervous system structures with its primary role in movement control (draw a line between them).
   Cerebellum  Basal Ganglia  Prefrontal Cortex  Spinal Cord
   Contains the first synapse for motor neurons
   Refines and smoothes voluntary movements
   Translates uncoordinated action into skilled action
   Allows for voluntary control and initiation of movement

5. (2.5 pts) Contraction of a FLEXOR/AN EXTENSOR (circle one) causes the movement of a limb away from the body. This kind of muscle falls under the category of ____________________ muscles that have striations and move our limbs. Two other types of muscles tissue are ____________________ muscle which make up the ____________________ and ____________________ muscle which process the flow of waste through your body.

6. (1 pt) Myofibrils are composed of two types of filaments. The filaments are made up of
   a) muscle fiber
   b) flexors
   c) actin and myosin
   d) acetylcholine
7. (1 pt) The knee-jerk reflex is an example of
   a) a monosynaptic stretch reflex
   b) a polysynaptic reflex
   c) golgi tendon organs

8. (0.5 pt) TRUE or FALSE (circle one): The combination of biceps and triceps are an example
   of an antagonistic muscle pair such that when one is contracted the other is relaxed.