Example Exam Questions

1. A patient arrives at the hospital with a pulverized upper arm and shattered elbow.
   a. Name the bones that are broken?
   b. Name two flexors of the forearm that might be injured.
   c. Name one extensor of the forearm that might be injured.
   d. Give a specific example of each tissue type that is injured (e.g. muscle tissue; erector pili).

2. A patient with no obvious physical injuries is experiencing irregular and accelerated heart and respiration rate, coupled with elevated blood pressure and constant, intense feelings of hunger.
   a. Do these symptoms suggest a problem with his somatic or autonomic nervous system?
   b. What region of his brain appears to be malfunctioning?
   c. Does the sympathetic or parasympathetic division appear to be stimulated?
   d. Would you prescribe him a drug that produced IPSP’s or EPSP’s in the affected neurons and why?

3. A restaurant worker complains to you that he keeps burning his hands and arms in the kitchen without realizing it. You run a few tests and discover that his patellar reflex is impaired, but when you ask him to kick he does so.
   a. Is there a problem with the afferent or efferent nerve fibers?
   b. Are the sensory or motor neurons affected?
   c. What type of tissue does he keep burning on his hands?