

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?