Q1. What is the purpose of today’s lab? (1 pt)

1. To learn how to dissect crayfish
2. To investigate the muscular responses of crayfish to electrical stimulation
3. **To investigate the electrical properties of nerves**

Q2. A compound action potential is composed of... (2 pts)

1. An action potential moving down the axon of a neuron
2. Many action potentials moving down the axon of a neuron
3. **Many action potentials, each moving down different axons in nerve**

Q3. During an action potential, rapid depolarization occurs when... (1 pt)

1. **Sodium channels open**
2. Sodium channels close
3. Potassium channels open
4. Potassium channels close

Q3. Secs 004and 006. During an action potential, rapid repolarization occurs when… (1 pt)

1. Sodium channels open
2. Sodium channels close
3. **Potassium channels open**
4. Potassium channels close

Q4. AP conduction velocity increases with increasing axon diameter. (1 pt)

1. **True**
2. False

Q4. Secs 004 and 006. AP conduction velocity decreases with increasing myelination. (1 pt)

1. True
2. **False**