1. What is an EPSP? What affect does it have on the membrane potential of a neuron? Discuss the difference between a unitary EPSP and a compound EPSP.

2. What type of cell does a CA3 neuron project to? How many different cells can a CA3 neuron target?

3. Describe the similarities and differences between AMPA and NMDA receptors. Include a discussion of their IV curves, requirements for gating, and subunit compositions.

4. Why are NMDA receptors called coincidence detectors?

5. What is the concentration of glutamate in the synaptic cleft when it is released from a presynaptic cell? How long is it in the cleft? How does it get cleared?