



1. Please use the above unilateral cross-section of dentate gyrus and hippocampus as your reference, describe all the stress-associated plasticity occurring in this area. (30%)
2. Using behavior-changing effects from long-term drug use as an example, depict how the genetic activity in certain CNS neurons could be involved in the example? (30%)
3. Explain the excitatory postsynaptic potential (EPSP), and inhibitory postsynaptic potential (short as IPSP), and their impact on action potential? (20%)
4. Explain the receptive field in the sensory system. (20%)