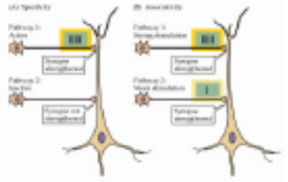
Q2_Intro

1. Neurotransmitters can be
   - (A) Small molecules
   - (B) Peptides
   - (C) Amino Acids
   - (D) All of the above

2. Long term potentiation (LTP) is primarily studied in which part of the brain?
   - (A) Cortex
   - (B) Cerebellum
   - (C) Hippocampus
   - (D) Frontal Lobe
   - (E) All of the above

3. LTP can be induced in the hippocampus by pairing
   - (A) CA3 stimulation with CA1 Stimulation
   - (B) CA3 stimulation with CA1 depolarization
   - (C) CA3 stimulation with CA3 depolarization
   - (D) CA1 stimulation and depolarization

4. In the attached figure, why does the week stimulation in the presence of a strong stimulattion strengthen the weak synapse?



   - (A) Because the weak synapse is closer to the soma
   - (B) Strong stimulation strengthens all synapse of the neuron
   - (C) The weak synapse is close to the strong stimulation
   - (D) The weak stimulation occurs at the same time as the strong stimulation
   - (E) None of the above

5. LTP and LTD differ in the?
   - (A) Magnitude of the stimulation
   - (B) Type of neurotransmitter
   - (C) Frequency of stimulation
   - (D) Type of neurons

6. The ratio of glia to neurons in the brain is
   - (A) About 1 to 1
   - (B) About 10 to 1
   - (C) About 100 to 1