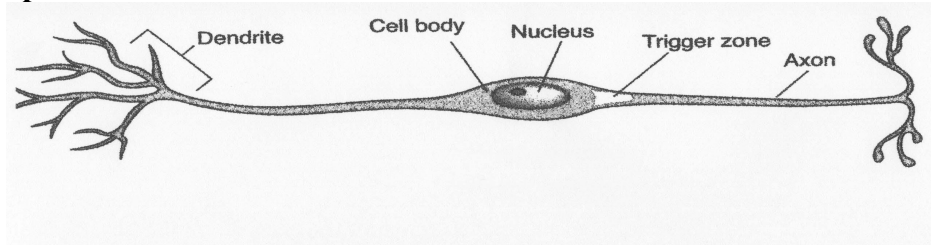


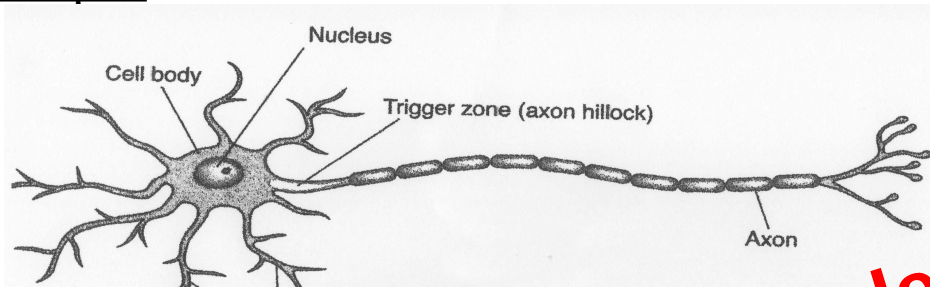
Structural Classification

Based on the number of processes that extend from the cell body

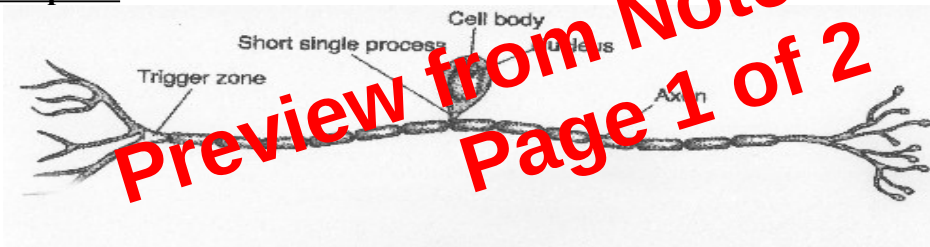
Bipolar Neuron



Multipolar



Unipolar



Action Potential

Makes up the neural impulse

Electrical Message

Due to an external stimulus (usually at dendrites)

2 Types of stimuli

Excitatory- causes a local depolarization

Opens Na^+ channels near the receptors site

Na^+ floods in

Causes the neuron to become more positive

Inhibitory- causes a local hyper polarization

Opens K^+ channels near the receptors site

K^+ moves out

Makes neuron more negative

For a stimulus to cause an action potential, the membrane must be depolarized to -50 millivolts(mv);
threshold